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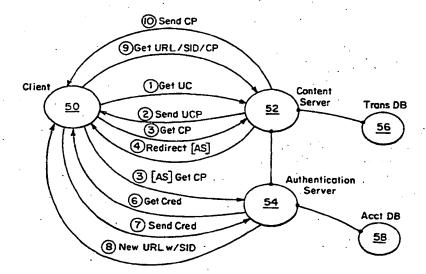
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(57) Abstract

This invention relates to methods for controlling and monitoring access to network servers. In particular, the process described in the invention includes client-server sessions over the Internet involving hypertext files. In the hypertext environment, a client views a document transmitted by a content server with a standard program known as the browser. Each hypertext document or page contains links to other hypertext pages which the user may select to traverse. When the user selects a link that is directed to an access-controlled file, the server subjects the request to a secondary server which determines whether the client has an authorization or valid account. Upon such verification, the user is provided with a session identification which allows the user to access to the requested file as well as any other files within the present protection domain.

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INTERNET SERVER ACCESS CONTROL AND MONITORING SYSTEMS

Reference to Appendix

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10 Background of the Invention

The Internet, which started in the late 1960s, is a vast computer network consisting of many smaller networks that span the entire globe. The Internet has grown exponentially, and millions of users ranging from individuals to corporations now use permanent and dial-up connections to use the Internet on a daily basis worldwide. The computers or networks of computers connected within the Internet, known as "hosts", allow public access to databases featuring information in nearly every field of expertise and are supported by entities ranging from universities and government to many commercial organizations.

The information on the Internet is made available to the public through "servers". A server is a system running on an Internet host for making available files or documents contained within that host. Such files are typically stored on magnetic storage devices, such as tape drives or fixed disks, local to the host. An Internet server may distribute information to any computer that requests the files on a host. The computer making such a request is known as the "client", which may be an Internet-connected

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workstation, bulletinaboard system or home personal computer (PC). Thorn Carl or walker to the computer (PC).

Protocol) is one networking protocol that permits full use of the Internet. All computers on a TCP/IP network need unique ID codes. Therefore, each computer or host on the Internet is identified by a unique number code, known as the IP (Internet Protocol) number or address, and corresponding network and computer names. In the past, an

- Internet user gained access to its resources only by identifying the host computer and a path through directories within the host's storage to locate a requested file. Although various navigating tools have helped users to search resources on the Internet without knowing
- specific host addresses, these tools still require a substantial technical knowledge of the Internet.

information on the Internet which allows a user to navigate the Internet resources infultively, without IP addresses or

- other technical knowledge. The Web dispenses with commandline utilities which typically require a user to transmit sets of commands to communicate with an Internet server. Instead, the Web is made up of hundreds of thousands of interconnected "pages", or documents, which can be
- 25 displayed on a computer monitor. The Web pages are provided by hosts running special servers. Software which runs these Web servers is relatively simple and is available on a wide range of computer platforms including PC's. Equally available is a form of client software,
- 30 known as a Web "browser", which is used to display Web pages as well as traditional non-Web files on the client system. Today, the Internet hosts which provide Web servers are increasing at a rate of more than 300 per month, en route to becoming the preferred method of
- 35 Internet communication.

Created in 1991, the Web is based on the concept of "hypertext" and a transfer method known as "HTTP"

(Hypertext Transfer Protocol), HTTP is designed to run primarily over TCP/IP and uses the standard Internet setup, where a server issues the data and a client displays or processes it. One format for information transfer is to create documents using Hypertext Markup Language (HTML).

HTML pages are made up of standard text as well as formatting codes which indicate how the page should be displayed. The Web client, a browser, reads these codes in order to display the page. The hypertext conventions and related functions of the world wide web are described in the appendices of U.S. Patent Application Serial No. 08/328,133, filed on October 24, 1994, by Payne etaal. which is incorporated herein by reference.

Each Web page may contain pictures and sounds in addition to text. Hidden behind certain text, pictures or sounds are connections, known as "hypertext links" ("links"), to other pages within the same server or even on other computers within the Internet. For example, links may be visually displayed as words or phrases that may be underlined or displayed in a second color. Each link is directed to a web page by using a special name called a URL (Uniform Resource Locator). URLs enable a Web browser to go directly to any file held on any Web server. A user may also specify a known URL by writing it directly into the command line on a Web page to jump to another Web page.

The URL naming system consists of three parts: the transfer format, the host name of the machine that holds the file, and the path to the file. An example of a URL may be:

No or we have referred and token on a fi

http://www.college.uniy.edu/Adir/Bdir/Cdir/page.html,

BNSDOCID: <WO___9642041A2_I_>

where "http" represents the transfer protocol; a colon and two forward slashes (://) are used to separate the transfer format from the host name; "www.college.univ.edu" is the host name in which "www" denotes that the file being

- requested is a Web page; "/Adir/Bdir/Cdir" is a set of directory names in a tree structure, or a path, on the host machine; and "page.html" is the file name with an indication that the file is written in HTML.
- The Internet maintains an open structure in which

 10 exchanges of information are made cost-free without

 restriction. The free access format inherent to the

 Internet, however, presents difficulties for those

 information providers requiring control over their Internet

 servers. Consider for example, a research organization
- 15 that may wants to make certain technical information available on its Internet server to a large group of colleagues around the globe, but the information must be kept confidential. Without means for identifying each client, the organization would not be able to provide
- 20 information on the network on a confidential or preferential basis. In another situation, a company may want to provide highly specific service tips over its Internet server only to customers having service contracts or accounts.
- Access control by an Internet server is difficult for at least two reasons. First, when a client sends a request for a file on a remote Internet server, that message is routed or relayed by a web of computers connected through
 - the Internet until it reaches its destination host. The
- oclient does not necessarily know how its message reaches the server. At the same time, the server makes responses without ever knowing exactly who the client is or what its IP address is. While the server may be programmed to trace its clients, the task of tracing is often difficult, if not
- 35 impossible. Secondly, to prevent unwanted intrusion into

private local area networks (LAN) system administrators implement various data-flow control mechanisms, such as the Internet "firewalls", within their networks. An Internet firewall allows a user to reach the Internet anonymously while preventing intruders of the outside world from accessing the user's LAN.

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Summary of the Invention of the Invention

The present invention relates to methods of processing service requests from a client to a server through a network. In particular the present invention is applicable to processing client requests in an HTTP (Hypertext Transfer Protocol) environment, such as the World Wide Web (Web). One aspect of the invention involves forwarding a service request from the client to the server and appending a session identification (SID) to the request and to subsequent service requests from the client to the server within a session of requests. In a preferred embodiment, the present method involves returning the SID from the server to the client upon an initial service request made by the client. A valid SID may include an authorization identifier to allow a user to access controlled files.

In a preferred embodiment, a client request is made with a Uniform Resource Locator (URL) from a Web browser. Where a client request is directed to a controlled file without an SID, the Internet server subjects the client to an authorization routine prior to issuing the SID, the SID being protected from forgery. A content server initiates the authorization routine by redirecting the client's request to an authentication server which may be at a different host. Upon receiving a redirected request, the authentication server returns a response to interrogate the client and then issues an SID to a qualified client. For a new client, the authentication server may open a new account and issue an SID thereafter. A valid SID typically

comprises a user identifier, an accessible domain, a key identifier, an expiration time such as date, the IP address of the user computer, and an unforgettable digital signature such as a cryptographic hash of all of the other items in the SID encrypted with a secret key. The authentication server then forwards a new request consisting of the original URL appended by the SID to the client in a REDIRECT. The modified request formed by a new URL is automatically forwarded by the client browser to the

When the content server receives a URL request accompanied by an SID, it logs the URL with the SID and the user IP address in a transaction log and proceeds to validate the SID. When the SID is so validated, the content server sends the requested document for display by

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10 content server. And the server and the

the client's Web browser.

In the preferred embodiment, a valid SID allows the client to access all controlled files within a protection domain without requiring further authorization. A

20 protection domain is defined by the service provider and is a collection of controlled files of common protection within one or more servers.

When a client accesses a controlled Web page with a valid SID, the user viewing the page may want to traverse a

- 25 link to view another Web page. There are several possibilities. The user may traverse a link to another page in the same path. This is called a "relative link".

 A relative link may be made either within the same domain or to a different domain. The browser on the client
- computer executes a relative link by rewriting the current URL to replace the old controlled page name with a new one. The new URL retains all portions of the old, including the SID, except for the new page name. If the relative link points to a page in the same protection domain, the SID
- 35 remains valid, and the request is honored. However, if the

relative link points to a controlled page in a different protection domain, the SID is no longer valid, and the client is automatically redirected to forward the rewritten URL to the authentication server to update the SID. The updated or new SID provides access to the new domain if the user is qualified.

The user may also elect to traverse a link to a document in a different path. This is called an "absolute link". In generating a new absolute link, the SID is overwritten by the browser. In the preferred embodiment, the content server, in each serving of a controlled Web page within the domain, filters the page to include the current SID in each absolute URL on the page. Hence, when the user elects to traverse an absolute link, the browser is facilitated with an authenticated URL which is directed with its SID to a page in a different path. In another embodiment, the content server may forego the filtering procedure as above-described and redirect an absolute URL to the authentication server for an update.

An absolute link may also be directed to a controlled file in a different domain. Again, such a request is redirected to the authentication server for processing of a new SID. An absolute link directed to an uncontrolled file is accorded an immediate access.

In another embodiment, a server access control may be maintained by programming the client browser to store an SID or a similar tag for use in each URL call to that particular server. This embodiment, however, requires a special browser which can handle such communications and is generally not suitable for the standard browser format common to the Web.

Another aspect of the invention is to monitor the frequency and duration of access to various pages both controlled and uncontrolled. A transaction log within a content server keeps a history of each client access to a

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page including the link sequence through which the page was accessed. Additionally, the content server may count the client requests exclusive of repeated requests from a common client. Such records provide important marketing 5 feedback including user demand, access pattern, and

5 feedback including user demand, access pattern, and relationships between customer demographics and accessed upages and access patterns.

The above and other features of the invention including various novel details of construction and

- combinations of parts will now be more particularly described with reference to the accompanying drawings and pointed out in the claims. It will be understood that the particular devices and methods embodying the invention are shown by way of illustration only and not as limitations of
- 15 the invention. The principles and features of this invention may be employed in varied and numerous embodiments without departing from the scope of the invention.

Brief Description of the Drawings:

- 20 % to Figure 1 is a diagram illiustrating the Internet of operation.
 - Figure 2A is a flowchart describing the preferred method of Internet server access control and monitoring.

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- Figure 2B is a related flowchart describing the 25% details of the authentication process.
- Figure 3 illustrates an example of a client-server exchange session involving the access control and monitoring method of the present invention.
- Figure 4 is an example of a World Wide Web page.
- 30 Figure 5 is an example of an authorization form page.

 Figure 6 is a diagram describing the details of the

translation of telephone numbers to URLs.

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Detailed Description of the Invention:

Referring now to the drawings, Figure 1 is a graphical illustration of the Internet. The Internet 10 is a network of millions of interconnected computers 12 including:

- systems owned by Internet providers 16 and information systems (BBS) 20 such as Compuserve or America Online. Individual or corporate users may establish connections to the Internet in several ways. A user on a home PC 14 may purchase an account through the Internet provider 16.
- 10 Using a modem 22, the PC user can dial up the Internet provider to connect to a high speed modem 24 which, in turn provides a full service connection to the Internet.

 A user 18 may also make a somewhat limited connection to the Internet through a BBS 20 that provides an Internet gateway connection to its customers.

Figure 2A is a flowchart detailing the preferred process of the present invention and Figure 4 illustrates a sample Web page displayed at a client by a browser. The page includes text 404 which includes underlined link text

- 412. The title bar 408 and URL bar 402 display the title and URL of the current web page, respectively. As shown in Figure 4, the title of the page is "Content Home Page" and the corresponding URL is "http://content.com/homepage".

 When a cursor 414 is positioned over link text 412b, the
- page which would be retrieved by clicking a mouse is typically identified in a status bar 406 which shows the URL for that link. In this example the status bar 406 shows that the URL for the pointed link 412b is directed to a page called "advertisement" in a commercial content.
- server called "content". By clicking on the link text, the user causes the browser to generate a URL GET request at 100 in Figure 2A. The browser forwards the request to a content server 120, which processes the request by first determining whether the requested page is a controlled
- 35 document 102. If the request is directed to an

uncontrolled page, as in "advertisement" page in this example, the content server records the URL and the IP address, to the extent it is available; in the transaction log 114. The content server then sends the requested page 5 to the browser 116 for display on the user computer 117.

If the request is directed to a controlled page, the content server determines whether the URL contains an SID 102. For example, a URL may be directed to a controlled page name "report", such as "http://content.com/report", 10 that requires an SID. If no SID is present, as in this example, the content server sends a "REDIRECT" response 122

to the browser 100 to redirect the user's initial request to an authentication server 200 to obtain a valid SID. The details of the authentication process are described in

- 15 Figure 2B and will be discussed later, but the result of the process is an SID provided from the authentication server to the client. In the above example, a modified URL appended with an SID may be: "http://content.com/[SID]/report". The preferred SID is a sixteen character ASCII
- 20 string that encodes 96 bits of SID data, 6 bits per character. It contains a 32-bit digital signature, a 16-bit expiration date with a granularity of one hour, a 2-bit key identifier used for key management, an 8-bit domain comprising a set of information files to which the current
- 25 SID authorizes access, and a 22-bit user identifier. The remaining bits are reserved for expansion. The digital signature is a cryptographic hash of the remaining items in the SID and the authorized IP address which are encrypted with a secret key which is shared by the authentication and 30 centent servers.
- If the initial GET URL contains a SID, the content server determines whether the request is directed to a page within the current domain 106. If the request having a SID is directed to a controlled page of a different domain, the

SID is no longer valid and, again, the user is redirected to the authentication server 122.

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If the request is for a controlled page within the current domain, the content server proceeds to log the request URL, tagged with SID, and the user IP address in the transaction log 108. The content server then validates the SID 110. Such validation includes the following list of checks: (1) the SID's digital signature is compared against the digital signature computed from the remaining items in the SID and the user IP address using the secret key shared by the authentication and content servers; (2) the domain field of the SID is checked to verify that it is within the domain authorized; and (3) the

verify that it is within the domain authorized; and (3) the EXP field of the SID is checked to verify that it is later than the current time.

If the validation passes, the content server searches the page to be forwarded for any absolute URL links contained therein 112, that is, any links directed to controlled documents in different content servers. The content server augments each absolute URL with the current SID to facilitate authenticated accesses across multiple content servers. The requested page as processed is then transmitted to the client browser for display 117. The user viewing the requested Web page may elect to traverse any link on that page to trigger the entire sequence again

Figure 2B describes the details of the authentication process. The content server may redirect the client to an authentication server. The REDIRECT URL might be:

30 "http://auth.com/authenticate?domain=[domain]&URL=http://content.com/report". That URL requests authentication and

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specifies the domain and the initial URL. In response to the REDIRECT the client browser automatically sends a GET request with the provided URL.

Whenever the content server redirects the client to the authentication server 200, the authentication server initiates the authorization process by validating that it is for an approved content server and determining the level 5 of authentication required for the access requested 210. Depending on this level, the server may challenge the user 212 for credentials. If the request is for a low level decument, the authentication may issue an appropriate SID immediately 228 and forego the credential check procedures. 10. If the document requires credentials, the authentication server sends a "CHALLENGE" response which causes the client browser to prompt the user for credentials 214. A preferred credential query typically consists of a request for user name and password. If the user is unable to provide a password, the access is denied. The browser forms an authorization header 300 from the information provided, and resends a GET request to the authentication server using the last URL along with an authorization header. For example, a URL of such a GET request may be: 20. "http://auth.com/authenticate?domain=[domain]&URL=http:// or content.com/report and the authorization header may be: "AUTHORIZE: [authorization]". Upon receiving the GET request, the authentication server queries an account database 216 to determine whether

server queries an account database 216 to determine whether
the user is authorized 218 to access the requested
document. A preferred account database may contain a user
profile which includes information for identifying
purposes, such as client IP address and password, as well
as user demographic information, such as user age, home
dadress, hobby, or occupation, for later use by the content
server. If the user is authorized, an SID is generated 228
as previously described. If the user is not cleared for
authorization, the authentication server checks to see if
the user qualifies for a new account, a page denying access

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is qualified, the new user is sent a form page such as illustrated in Figure 5 to initiate a real-time on-line registration 224. The form may, for example, require personal information and credit references from the user. The browser is able to transmit the data entered by the user in the blanks 502 as a "POST" message to the authentication server. A POST message causes form contents to be sent to the server in a data body other than as part of the URL. If the registration form filled out by the new user is valid 226, an appropriate SID is generated 228. If the registration is not valid, access is again denied 222.

An SID for an authorized user is appended ("tagged")

230 to the original URL directed to a controlled page on

15 the content server. The authentication server then

transmits a REDIRECT response 232 based on the tagged URL

to the client browser 100. The modified URL, such as

"http://content.com/[SID]/report" is automatically

forwarded to the content server 120.

Figure 3, illustrates a typical client-server exchange involving the access control and monitoring method of the present invention. In Step 1, the client 50 running a browser transmits a GET request through a network for an uncontrolled page (UCP). For example, the user may request an advertisement page by transmitting a URL "http://content.com/advertisement", where "content.com" is the server name and "advertisement" is the uncontrolled page name. In Step 2, the content server 52 processes the GET request and transmits the requested page, "advertisement". The content server also logs the GET request in the transaction database 56 by recording the URL, the client IP address, and the current time.

In Step 3, the user on the client machine may elect to traverse a link in the advertisement page directed to a controlled page (CP). For example, the advertisement page

may contain a link to a controlled page called "report". Selecting this link causes the client browser 50 to forward as a GET requests through a URL which is associated with the report file "http://content.com/report". The content 5 server 52 determines that the request is to a controlled page and that the URL does not contain an SID. In Step 4, the content server transmits a REDIRECT response to the client, and, in Step 5, the browser automatically sends the REDIRECT URL to the authentication server 54. The REDIRECT 10 URL sent to the authentication server may contain the following string: That I of the I main was a say "http://auth.com/authenticate?domain=[domain]&URL=http:// content.com/report and the part addition parts. The authentication server processes the REDIRECT and 15 determines whether user credentials (CRED) are needed for authorization. In Step 6, the authentication server transmits a "CHALLENGE" response to the client. previously described, typical credentials consist of user name and password? An authorization header based on the 20 credential information is then forwarded by the client browser to the authentication server. For example, a GET URL having such an authorization header is: "http://autho.com/authenticate?domain=[domain]&URL=http:// accontent com/report and the authorization header may 25 - be: "AUTHORIZE: [authorization]". The authentication server processes the GET request by checking the Account Database 58. If a valid account exists for the user, an SID is is issued which authorizes access to the controlled page "report" and all the other pages within the domain. 30. As previously described, the preferred SID comprises a compact ASCII string that encodes a user identifier, the current domain, a key identifier, an expiration time, the client IP address, and an unforgeable digital signature. In Step 8, the authentication server redirects the client 35 to the tagged URL, "http://content.com/[SID]/report", to

the client. In Step 9, the tagged URL is automatically forwarded by the browser as a GET request to the content server. The content server logs the GET request in the Transaction database 56 by recording the tagged URL, the 5 client IP address and the current time. In Step 10, the content server, upon validating the SID, transmits the requested controlled page "report" for display on the client browser.

According to one aspect of the present invention, the

content server periodically evaluates the record contained
in the transaction log 56 to determine the frequency and
duration of accesses to the associated content server. The
server counts requests to particular pagesmexclusive of
repeated requests from a common client in order to

to determine the merits of the information on different pages
for ratings purposes. By excluding repeated calls, the
system avoids distortions by users attempting to "stuff the
ballot box." In one embodiment, the time intervals
between repeated requests by a common client are measured
to exclude those requests falling within a defined period
of time.

Additionally, the server may, at any given time, track access history within a client-server session. Such a history profile informs the service provider about link transversal frequencies and link paths followed by users. This profile is produced by filtering transaction logs from one or more servers to select only transactions involving a particular user ID (UID). Two subsequent entries, A and B, corresponding to requests from a given user in these logs represent a link traversal from document A to document B made by the user in question. This information may be used to identify the most popular links to a specific page and to suggest where to insert new links to provide more direct access. In another embodiment, the access history is evaluated to determine traversed links leading to a

purchase of a product made within commercial pages. This information may be used, for example, to charge for advertising based on the number of link traversals from an advertising page to a product page or based on the count of purchases resulting from a path including the advertisement. In this embodiment, the server can gauge the effectiveness of advertising by measuring the number of sales that resulted from a particular page, link, or path of links. The system can be configured to charge the merchant for an advertising page based on the number of sales that resulted from that page.

According to another aspect of the present invention, a secondary server, such as the authentication server 200 in Figure 2B, may access a prearranged user profile from 15 the account database 216 and include information based on such a profile in the user identifier field of the SID. In a preferred embodiment, the content server may use such an SID to customize user requested pages to include personalized content based on the user identifier field of 20 the SID.

In another aspect of the invention, the user may gain access to domain of servers containing journals or publications through a subscription. In such a situation, the user may purchase the subscription in advance to gain access to on-line documents through the Internet. The user gains access to a subscribed document over the Internet through the authorization procedure as described above where an authorization indicator is preferably embedded in a session identifier. In another embodiment, rather than relying on a prepaid subscription, a user may be charged and billed each time he or she accesses a particular document through the Internet. In that case, authorization may not be required so long as the user is fully identified in order to be charged for the service. The user

identification is most appropriately embedded in the session identifier described above.

In another aspect of the invention, facilities are provided to allow users to utilize conventional telephone numbers or other identifiers to access merchant services. These merchant services can optionally be protected using SIDs. In a preferred embodiment, as shown in Figure 6, a web browser client 601 provides a "dial" command to accept a telephone number from a user, as by clicking on a "dial" icon and inputting the telephone number through the keyboard. The browser then constructs a URL of the form "http://directory.net/NUMBER", where NUMBER is the telephone number or other identifier specified by the user. The browser then performs a GET of the document specified by this URL, and contacts directory server 602, sending the NUMBER requested in Message 1.

In another embodiment, implemented with a conventional browser, client 601 uses a form page provided by directory server 601 that prompts for a telephone number or other identifier in place of a "dial" command, and Message 1 is a POST message to a URL specified by this form page.

Once NUMBER is received by directory server 601, the directory server uses database 604 to translate the NUMBER to a target URL that describes the merchant server and document that implements the service corresponding to NUMBER. This translation can ignore the punctuation of the number, therefore embedded parenthesis or dashes are not significant.

In another embodiment an identifier other than a

number may be provided. For example, a user may enter a
company name or product name without exact spelling. In
such a case a "soundex" or other phonetic mapping can be
used to permit words that sound alike to map to the same
target URL. Multiple identifiers can also be used, such as

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a telephone number in conjunction with a product name or extension.

In Message 2, Directory server 602 sends a REDIRECT to client 601, specifying the target URL for NUMBER as computed from database 604. The client browser 601 then automatically sends Message 3 to GET the contents of this URL. Merchant server 603 returns this information in Message 4. The server 602 might have returned a Web page to the client to provide an appropriate link to the required document. However, because server 602 makes a

required document. However, because server 602 makes a translation to a final URL and sends a REDIRECT rather than a page to client 601, the document of message 4 is obtained without any user action beyond the initial dial input.

The Target URL contained in Message 3 can be an ordinary URL to an uncontrolled page, or it can be a URL that describes a controlled page. If the Target URL describes a controlled page then authentication is performed as previously described. The Target URL can also describe a URL that includes an SID that provides a preauthorized means of accessing a controlled page.

Among benefits of the "dial" command and its implementation is an improved way of accessing the Internet that is compatible with conventional telephone numbers and other identifiers. Merchants do not need to alter their print or television advertising to provide an Internet specific form of contact information, and users do not need to learn about URLs.

In the approach a single merchant server can provide multiple services that correspond to different external "telephone numbers" or other identifiers. For example, if users dial the "flight arrival" number they could be directed to the URL for the arrival page, while, if they dial the "reservations" number, they would be directed to the URL for the reservations page. A "priority gold" number could be directed to a controlled page URL that

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would first authenticate the user as belonging to the gold users group, and then would provide access to the "priority gold" page. An unpublished "ambassador" number could be directed to a tagged URL that permits access to the "priority gold" page without user authentication.

This invention has particular application to network sales systems such as presented in U.S. Patent Application Serial No. 08/328,133, filed October 24, 1994, by Payne et al. which is incorporated herein by reference.

. 10 Equivalents in a game the USI levine of noingles of

Those skilled in the art will know, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments or the invention described herein. These and all other equivalents are intended to be encompassed by the following claims.

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၁၈၆ တာက အည့် ၆ ခုနှစ်သူများကို ရှိတို့ သို့ သည်သည်။ မေးက **ုပ်**မှုတဲ့ ကြီး**သည်သို့သာ မ**ယ် ခုလို့သို့ နေ

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្រុមស្រួញ ការក្រុយមុខ ខ្លួនបាន ស្រុកពាធិន សង្គាល់ការសេស ទេសីក្សាទី១ 🖟 ស្រែង នេះការស ខាមេធ

వారు, ఆర్ఎక్స్ కార్లు కొన్న ఉయ్యాయ్తున్నారి. మందుకుండి మంటులుకు మన్ అయి ఉద్దానికి కేంద్రాన్ సమ్మాన్

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్రము నుర్వమై (ఉమ్మికా), మాటార్స్ కాళ్ళాడు. ఈమ్ కారం, కుంటో రాగ్రహ్మీ నిర్మామిమ్ అయి త్వాని, బాట్ప్ అయ్యే స్వానికి సైకులో సహయాయికు కోశాకారు. కామార్క్ కూడా స్వానికి కేంద్ర

EUNOS E EN REAL EN SER PROPERTO A TRANSPORTA DE PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DE LA PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DEL PROPERTO DE LA PROPERTO DE LA PROPERTO DE LA PROPERTO DE LA PROPERTO DEL PROPERETO DEL PROPERTO DEL PROPERTO DEL PROPERTO DEL PROPERTO DEL PROPE

್ರೀಟ್ ನಿರ್ವಹಿಸಲಾಗಿ ಅವರ ಸಂಪ್ರತಿಗಳ ಕಾರ್ಯ ಸ್ಥಾಪಕ್ಷ ಕಾರ್ಯದಲ್ಲಿ ಸಂಪ್ರತಿಗಳ ಬೆಳಗಳ ಸಂಪ್ರತಿಗಳ ಕಾರ್ಯ ಪ್ರತಿ ಸ್ಥಾಪಕ್ಷ ಮುಖ್ಯ ಪ್ರಾರಕ್ಷ ಮುಖ್ಯ ಸ್ಥಾಪಕ್ಕ ಅತ್ಯಾಪಕ್ಕಿಗೆ ಸಂಪ್ರತಿಗೆ ಕಾರ್ಯವಾಗಿ ಸ್ಥಾಪಕ್ಕಿಗೆ ಸ್ಥಾಪಕ್ಕಿಗೆ ಸ್ಥಾಪಕ್ಕಿಗೆ ಸ್ಥಾಪಕ್ಕಿಗೆ ಸ್ಥಾಪಕ

BNSDOCID: <WO___9642041A2_I_>

Appendix

```
/* TclIdSid
              Scans an ascii line and finds an ascii SID. (no validation though)
    * Inputs:
y *issa lineoftexty: ಇದು ಪ್ರಚಿತ್ರ ಕಾರ್ಡಿಕಿಸಿದ ಬಳ್ಳು ಇದೆ ಎಂದು ಹೊಂದಿ ಕಾರ್ಡಿಕಿಸುತ್ತಾಗಳು
                                                                               .ಕರ್ಮಿಗಳ್ಳಾಗಿ ಕೇರ್ವರ ಕರ್ಮಕ್ಷಕ್ಕೆ ಕರ್ಮಕ್ಷಗಳ ಅಂಗ
    * Returns:
              ascii bin_sid, if a sid is found it is returned.
                                                                                                                            ದರ್ಭಾವರಿತ ಬಗ್ಗ
 int TclIdSid(ClientData dummy, Tcl_Interp *interp,
                                                              int argc, char **argv)
   -- (---
         char *sidp, *cp;
                                                                                                    ್ಯಾಕ ಆರ್ವದ ನಟ್ಟಿಕರಣಗಾಗುವ ಒಂದೆ
         interp->result[0] = 0;
                                                                                                                                 Roman March & Two
                                                                                                        (150) dasa in situ facti libra
        if (argc != 2)
                                                                                                                    gage that beinglein
                                                                                                        wistgrad in Sangradu
              interp->result = "wrong # args";
              return TCL_ERROR;
                                                                                                                             , Ennels size H
        ್ಕ್ ಚಿತ್ರಕ್ಕೆ ಬ್ಲಾಟಿಕಿಕೊಂಡಿ ಅತ್ಯ
         if (sidp == NULL) return TCL OK;
         cp = (char *) strstr(sidp+1,"/");
         if ((cp == NULL) && (strlen(sidp) != 19)) return TCL OK;
         if ((cp - sidp) != 19) return TCL OK;
                                                                                                                             48 127 F 47 47 L 1
         strncpy(interp->result, sidp,19);
                                                                                                                            interp->result[19] = 0;
                                                                                                                             wall and didney
         return TCL OK;
                                                                                                                               COLD MAD A SATISFIE
                                                                                                                                      بالأراب والرافق المحا
   * Register commands with interpreter.
                                                                                                  Company to about mod
int SidSupInit(Tcl_Interp *interp)
    Tcl_CreateCommand(interp, "packsid", TclPackSid, NULL, NULL);
     Tcl_CreateCommand(interp, "unpacksid", TclUnpackSid, NULL, NULL);
Tcl_CreateCommand(interp, "unpacksidnovalidate", TclUnpackSidNoValidate, NULL, has a common a selection that been processed and the proces
     កស្តារ ប្រទេសក្រាស់ ស្រក់ក្នុង ស្រាស់ សាយាកាយការប្រទេសការបស់ស្រែក្រាយនៅការស្រែកការប្រការប្រទេសការប្រការប្រការប
```

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                                   compute thash or the description as easily the empty of the description of the descriptio
                                        Compute the MD5 hash for the specified string, returning the hash as
                                  a 32b xor of the 4 hash longwords.
                                                                                                                         ುವಿಕರಸಂಶರ್ಣ ಬಿ. ನಕ್ಕೆ ಮೀಡಲೇ ಎ. ನೀ. .. ನಕ್ಕೆ ಬಿಟ್ಟು ಬಿ. ಬಿ. ಬಿನ ಬ
                          * Results:
                                                                        hash int.
                         * Side effects:
                                                                                                                                                   ್ರಂತ ಕರ್ಮಿಕ ಸ್ವಹಕ್ಷಾಗುತ್ತಿದೆ. ಈ ಸ್ವೀಸ್ತಿ ಮರಿ ಮಾರ್ಕ್ ಮಾಡಿ ಮಾರ್ಕೆ ಮಾಡಿಕೆ ಮಾಡಿಕೆ ಮಾಡಿಕೆ ಮಾಡಿಕೆ ಮಾಡಿಕೆ ಮಾಡಿಕೆ ಮಾಡಿಕೆ
                                                                        None
                                                                                                                                                         Control state of the same of the
                 int compute_ihash(char *str)
                                                                                                                                                                                                                                                                                                           (in , D) tive and - quit ii
                                      MD5 CTX md5;
                                 unsigned char hash[16];
                                                                                                                                                                                                                                                                                                                                                                       (S el pers di
                                      unsigned int *p1;
                                      unsigned int hashi = 0;
                                                                                                                                                                                                                                     ್ಷೇತ್ರಗಳ ಕರ್ಮಿಸಿ ಅಂಗಾಗಿ ಈ ಇತ್ತಿಗಳ ಅಭಿಕೃತಿ ಅಭಿಕೃತಿ ಕರ್ಮ
                                                                                                                                                                                                                                                                                                                              o, normality assume
                                      MD5Init(&md5);
                                      MD5Final(hash, &md5);
                                                                                                                                                                                                                                                   gan with transfer with the date, it
                                      pl = (unsigned int *) hash; ... the republication of the ... ...
                                                                                                                            in the same of the state of the state of the same of t
                                      hashi = *p1+;
                                                                                                                                                                                                                 THE MET LET . (EL et l'ette pe L'a
                                      hashi ^= *pl++;
                                                                                                                                                                                                                                     Timer ( with the construction of the construct
                                      hashi ^= *p1++;
                                                                                                                                                                                                                                                                                                                                           on in the same of the constitution
                                      hashi ^= *p1++;
                                                                                                                                                                                                                                                                                                                                                                             ang tabi talitas
                                        return hashi;
                                     ticket.c --
                                                                                                                                                                                                                                            gagergrafti 1 tw none, will sollig till
                                                                         Commands for TICKET.
                                                                                                                                                                                                                                                            The Control of the Co
                                  Copyright 1995 by Open Market, Inc.
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இந்து இ
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              * morris@OpenMarket.com
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                                                                                                                                                                           1.200
             * Created: Wed Mar 1 1995
                                                                                                                                                                                          and the first of the second of the first of the second of 
             * $Source: /omi/proj/master/omhttpd/Attic/ticket.c,v $
                                 in 1996 in the confidence of the second consistency from the first of the confidence of the
                                                                                                                             Common and Company of the
                                                                                                                                                                    ್ವಾಪ್ಟ್ ಜನಾವರು ಅನ್ನಡ ಬರುಗಳು ಬರುವುದರು ನಿರ್ವಹಿಸಲಾಗು
     #if !defined(lint)
                                                                                                                                                         ing the training of the contract of the contra
     static const char rcsid[]="$Header:_./omi/proj/master/omhttpd/Attic/ticket.c,v
     2.
     #endif /*not lint*/
                                                                                                                                                           #include <stdio.h>
     #include <sys/utsname.h>
                                                                                                                                                                                                                                           . , 199 . . . . . . . <u>1840</u>1.2
     #include "httpd.h"

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                                                                                                                                                                                                                                                    ್ವಾರ್ಡ್ ಈ ಪ್ರತಿಕ್ರಿಯ ರಶ
     #include "md5.h"
     #include "ticket.h"
     static TICKET_Server TicketServerData;

    Elimberth Representation

    /*
          * This file implements all the ticket/sid related functions for the server.
                                                             and the second of the second o
           * The region commands RequireSID and poxxxx can be used to limit
        * access to groups of files based on the authentication of the requestor.
* The two commands are very similar, and only differ in the method used to
        * present the authentication data (via the URL) and in handling of the
       * failing access case. For failing TICKET's, a "not authorized" message is
        * generated. For failing (or absent) SID's, a REDIRECT (either local or via
        * CGI script) is performed to forward the request to an authentication
  server.
         * RequireSID domain1. [domain2; ...... domainn] To ( F. 20 ) be T. Ar. 3
                                                  This command denies access unless the specified properties are
                                                  true of the request. Only one RequireSID or xxxxx command can
                                                be used for a given region, though it may specify multiple domains.
                                                                                                                                                                   */
                                                                                                                                ong kina kanang mga Latabat da Patang kanang dalah datan da 1988 da Patang da Patang da Patang da Patang da Pa
                static_int ProcessRequires(ClientData clientData, Tcl_Interp *interp,
                                                                                                                                                                                                int argc, char **argv, int flavor);
                                                                                     DomainNameCmd(ClientData clientData, Tcl_Interp *interp,
             static int
                                                                                                                                                                                                int argc, char **argv);
        static int GetDomain(char *domname, int dflt);
```

```
static char *GetAsciiDomain(char *domname, char *dflt);
       static int computer_ihash(char *str);
       static char *computerHash(char *str);
                                                                                     The transfer of the second of
       static char *GetSecret(int kid):
                               static int
       static char *CreateSid(HTTP_Request *reqPtr, int dom, int uid, int kid,
                                                          int exp, int uctx);
       static void freeTicketReqData(void *dataPtr);
                                                                                                  ក្សាប្រជាពល្យ (កាអ្និក) និងជ
       static void DumpStatus(HTTP_Request *reqPtr);
       static void TICKET_DebugHooks (ClientData clientData, char *suffix,
                                                               HTTP_Request *reqPtr);
       static int ParseSid(HTTP_Request *reqPtr);
       static int ParseTicket(HTTP_Request *reqPtr);
       static char *fieldParse(char *str, char sep, char **endptr);
                                                                                       ್ಕತ ಭಾಗಾದ ಕಗುಡಿಸಿ<sub>ತ</sub>್ತ
       void TICKET_ConfigCheck();
                                                                                                    Carlot Carlot Carlot
       void DumpRusage(HTTP_Request *reqPtr);
                                                                                                       the design to the second
                                                                                                 Add dance to be all the second
                                                               spac o lookin Server toutwoders then
     TICKET_RequireSidCmd --
      Checks that the requested URL is authorized via SID to access this
              region. If the access is not authorized and we do not have a "remote"
           authentication server registered, then an "unauthroized message"
       is returned. If a "remote authentication server" has been
declared, we REDIRECT to that server, passing the requested URL and
              required domain sas arguments.
      and the offered and a second of the control of the second community of the control of the contro
    * Results: year agreement a condition of the contract of
        Normal Tcl result or a REDIRECT request.
    * Side effects:
               Either an "unauthorized access" message or a REDIRECT in case of
  error.
    int argc, char **argv)
         if (TicketGlobalData(EnableSidEater)) return TCL OK;
        return (ProcessRequires (clientData, interp, argc, argv, ticketSid));
      ್ರಿ ಆಕರ್ಷ ಮುಖ್ಯ ಸಾಹಿತಿಕರು ಸಾಗಿದ್ದರು. ನಕ್ಕ ತಡಕಿ
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                            A CARLETTE OF STATE AND
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ProcessRequired The Car was described NAID grain on the an apparatus
ार हात्रा<u>र</u>्थ
                ್ರಾರ್ಟ್ ಕೂ ಮಾಡುವ ಚಿತ್ರಗಳ ಕೂಡ ಕೂಡ ಮಾಡುವ ಕೂಡ ಮಾಡುವ ಕಾರ್ಯಕ್ಕೆ ಮಾರ್ವಿಕಿಯ
                          Checks that the requested URL is authorized to access this
                          region. The error cases are treated differently for SID v.s. TICKET.
                          For Ticket's, an unauthorized access generates a returned error
                                                              n rearda_ten = G tOcasta(arg. 14) -1 -
          message.
                          For SID's, we first look to see if we are operating in local
          authentica
                          mode", if we are, we generate a new SID, into the URL and re-process
                                                Fig. 1.5 min get seld If his mattenball, )
          the
                          If not in "local" mode, we look for the presence of a
          remoteauthentications as as a small demonstrate of parameters
                          server, if we have one declared (in the conf file) we REDIRECT to it
                                                  88 (4 23549) 34 3775, 1 15 -6 (1 4m13)
          pas
                          the FULL url and a list of domains that would have been legal. If
          the Congress of Castaphers are albitually to second during the
                          authentication server was not found we return an error message.
            Results:
                          Normal Tcl result, a local reprocess command, or a REDIRECT request.
                                                                            2.5tmirg/zee, seatigrintd3.;
                                                                                              the Com meaning
          * Side effects:
                         Either an "unauthorized access" message or a REDIRECT in case of
          error.
                                                             in a basement rieu o es rogens equipos es
 static int ProcessRequires(ClientData ClientData; Tcl_Interp *interp,
                                                                         int argc, char **argv, int flavor)
 or publication is tome about the control of the con
                HTPP_Request *reqPtr = (HTTP_ReqEust *) client Data;
                HTTP_Server a *serverPtr; pdaling bus after ear of the set of the at *\
                TICKET_Request *ticketPtr; : { distallances, isaRles winds to set to E | 1 |
              . DString targetUrl; gs: wee (I) scallscalO(235) if a mobile pilder (),
                DString escapeUrl; ... or as pentantl) of appropriate as levelt, as
                 int i, required_dom;
                 char *NewSid, *cp;
: Chica : : DStringInit (&targetUrl); : Caseburn (CAL % 1980 (And Special Transfer)
                                                                                     of filliegates earlightean
                DStringInit (&escapeUrl);
                                                                                             T.edibereleg.Tr zmin
                /* fetch the server private and ticket specific extension
                ticketPtr = (TICKET_Request *) HT_GetReqExtData(reqPtr,
         TicketServerData.tic
                                                                                     ារ្យាប់ ពួកស្រឹកទានមេនេះ។
                ASSERT (ticketPtr != NULL);
```

```
/* compare the requesting SID/Ticket<DOM> to authorized list of domains */
                   /* a match OR any valid domain and a required domain of TicketFreeArea is
             su como alegar de les delittes et 1.00 bateriore elle elle elle deber
organ of for (it = it; it; signargo, ti the heart are sesso of a sufficiency of
         e Tucker :, en machoribed mark cemerale à dauur.) il mont
                     required dom = GetDomain(argv[i] -1);
            if (required_dom (== #1) : esa or and is a la about a la
grant if (firstLegalDom == and ) firstLegalDom = required dom:
                         if ( (ticketPtr->sidDom == required_dom) ||
                         ticketPtr->valid && (ticketPtr->sidDom != 1) &&
                                   (required_dom == TicketGlobalData(FreeArea))) 44 75 NORTH
         ((ticketPtr-sticketDom == required_dom) &&
                                   (time(0) <= ticketPtr->ticketExp) &&
   If ...sq . - wa eventual ength (&ticketPtr=>ticketIP) == 0) [] | end
                                   (strcmp(DStringValue(&ticketPtr->ticketIP), DStringValue(&reqPtr-
         St. section toldies in that are purious contacts to the property of the section o
                TOTAL THE DStringFree (AtargetUrl), fame a valuable for Lambor
                               DStringFree (&escapeUrl);
                               return TCL OK;
                                                                                                                 Ride efficeral
                              utirem um finialiti (100 300es/) neassett (1 minitato
            /* count the number of domain crossing that caused re-auth */
           if ((flavor == ticketSid) && (ticketPtra>sidDom) != == 1) IncTicketCounter(Cou
           /* authorization failed, if this was a sid url, and local auth is enabled */
           /* or this was an access to the free earea */ = 30 400 people of the
           /* insert a new sid in the url, and REDIRECT back to the client 8?
            ((firstLegalDom == TicketGlobalData(FreeArea)) in repusa gal. and
                    group i burgan it at a
                if ((DStringLength(&reqPtr->url) != 0) && read to be policental than
                        (DStringValue(&reqPtr->url)[0] != '/'))
                    HTTP_Error(reqPtr, NOT_FOUND, "access denied due to poorly formed url");
                    DStringFree (&targetUrl);
                                                                                              Time eries dinignatulk
                    DStringFree (&escapeUrl);
                    if (!ticketPtr->valid)
                       DStringFree (&ticketPtr->sid);
                    return TCL RETURN: The Page of Page 15 and year and other to the board
                    }
              NewSid = CreateSid(reqPtr,
```

```
firstLegalDom, ticketPtr->uid,
                                                                  TicketGlobalData(CurrentSecret), TicketGlobalData(LocalAuthExp)
                                                                  ticketPtr->uctx);
                           DStringFree(&ticketPtr->sid);
                          DStringAppend(&ticketPtr->sid, NewSid, -1);
                                                                                                                                                            no maggain industries of managers
                          ComposeURL(reqPtr, DStringValue(&reqPtr->url), &targetUrl);
                           IncTicketCounter(CountLocal Redirects);
                                                                                                                                                                              general services and
                          HTTP_Error*reqPtr, REDIRECT, DStringValue(&targetUrl));
                          DStringFree (&targetUrl);
                          DStringFree (&escapeUrl):
                          if (!ticketPtr->valid)
                                 DStringFree(&ticketPtr->sid);
                                                                                                                                 est to a life confident station that of
                          return TCL_RETURN;
                                                                                                                   ្រុងស្វាលមាន ការ ខែការប្រជាជាតិ ស៊ី ស ខាងការប
                                                      g many is to be
                                                                                                                                                                                    in a state of the 
  /* authorization failed, build the REDIRECT URL arg's. */
                 /* If present, REDIRECT to authentication server */25
                 if ((DStringLength(&TicketGlobalData(AuthServer)) != 0) && (flavor == ticket
                         if 4(4(DStringLength (&reqPtr->url) != 0) &&

The ADStringLength (&reqPtr->url) != 0) &&
                   -1 (DStringValue(&reqPtr->url) [0] != '/'))
              DStringFree Atamosty 10 (DStringFree Atamosty) (DStringFree Atamosty) (DStringFree Atamosty)
                              DStringFree (&targetUrl);
                                                                                                                                  elimen cillipael consistati
                                DStringFree(&escapeUrl);
                                                                                                                                                                大夫の女ははないないがない むさいご
                                                                                                                           F11878276
                                if (!ticketPtr->valid)
                                                                                                                                 PERSONAL MEDICAL DESIGNATION FOR
                                      DStringFree (&ticketPtr->sid);
                                                                                                                             Miser (number of the continue of the
                                                                                                                                                               return TCL RETURN ;
                                                                                                                                                                                 IT DOWN TOO PERIOR TO
                DStringAppend(&targetUrl, DStringValue(&TicketGlobalData(AuthServer)), -1)
                ComposeURL(reqPtr, DStringValue(&reqPtr->url), &escapeUrl)
                EscapeUrl (&escapeUrl);
               s DStringAppeal (&targetUrl, "&domain=", -1);
                                                                                                                                                                ್ಲೇ ಕ್ರಹಿಣ್ಯವನ್ನು ಕ್ಷೇತ್ರದ್ದು ಸ್ವರ್ಥ ಸ್ಥಾರ್ಡ್ ಕ್ರಾ
                DStringTrunc(&escapeUrl, 0);
                                                                                                                            Paramakaphin (intropreted to the configuration)
               DStringAppend(&escapeUrl, "{=, -1);
               for (i=1; i < argc; i++)
                                                                                                               ್ಕು. ಕ್ರಾಗ್ ಸ್ಟ್ರಾಮ್ ಸ್ಟ್ರೀಕ್ ಕ್ರಾಪ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರತಿಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರತಿಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರಾಸ್ಟ್ ಪ್ರತಿಸ್ಟ್ ಪ್ರತಿಸ್ಟ
                        で ききかな しと ベルタエ スプルしん 首
                        if (cp != NULL)
                                                                                                                                                                             STANCE TO THE SECTION ASSESSED.
                                                                                                                                                                                           The second second control of the second seco
                               DStringAppend(&escapeUrl, cp, -1);
                              DStringAppend(&escapeUrl, " ", -1);
```

```
EscapeUrl(&escapeUrl);
                           ELEMPLE POS OFFICAL OF
 DStringAppend(&targetUrl, DStringValue(&escapeUrl), --3);
 DStringFree(&escapeUrl);
 HTTP_Error (reqPtr, REDIRECT, DStringValue (&targetUrl));
 IncTicketCounter(CountRemoteRedirects);
 DStringFree (&targetUrl);
                           Chaparak Tolk Lastral Tolk
 if (!ticketPtr->valid)
  DStringFree (&ticketPtr->sid);
                                         ្សារាជម្រុស្ស "ខ្មែរ ថា ភេស÷ជី
 return TCL_RETURN;
                                         o<mark>im</mark> ogelo Namedo misim
                                          Agon Carrier House
                                        * 1 A . 12
 /* authorization failed, if this is a ticket access, decode the */=
 /* reason and handl via a redirect to a handler, or punt a
 /* no access message */
if ((flavor == ticketTicket) && (firstLegalDom != -1). && (ticketPtr->ticketD
  /* check For IP address restrictions */
if :((DStringLength(&ticketPtr->ticket IP) != 0) &&
      (DstringLength(&TicketGlobalData(TicketAdrHandler)) [ ] = 0 ) [ && 7 x
      (strcmp(DStringValue(&ticketPtr->ticketIP), DStringValue(&reqPtr->remo
   DStringAppend(&targetUrl, DStringValue(&TicketGlobalData(TicketAdrHandle
  DStringAppend(&targetUrl, DStringValue(&ticketPtr; >fields), -1);
   DStringAppend(&targetUrl, DStringValue(&regPtr.>url), -1);
   IncTicketCounter(CountTicketAddr);
   HTTP_Error(reqPtr, REDIRECT, DStringValue(&targetUrl));
   DStringFree(&targetUrl);
   return TCL_RETURN;
                                          人名英巴马纳 电影 人名英格兰斯 化二氯苯基磺
    with alung of the structure of the comment
if (time(0) > ticketPtr->ticketExp)
  DStringAppend(&targetUrl, DStringValue(&TicketGlobalData(TicketExpHandle
  DStringAppend(&targetUrl, DStringValue(&ticketPtr->fields), --1);---
  DStringAppend(&targetUrl, "&url=", -1);
                                                المتعادل والمناسبين والمناسبة والمعادية
  DStringAppend(&targetUrl, DStringValue(&reqPtr->url), -1);
  IncTicketCounter(CountExpiredTicket);/*
HTTP_Error(reqPtr, REDIRECT, DStringValue(&targetUrl));
DStringFree(&targetUrl);
return TCL_RETURN;
```

```
/* no handler, punt a message */population Alaskie in the Programme
               HTTP_Error(reqPtr, FORBIDDEN, "access denied by Require ticket/sid region
               CO
                                                                       $1 Color made the course track to a continue factor
               IncTicketCounter(CountNoRedirects);
                                                                                                                                                                                                             Companya dan Lina da A
               if (!ticketPtr->valid)
                                                                                                                                                                                                       Cartination again care
              DStringFree(&ticketPtr->sid);
                                                                                                                                                                                                                              Commissions of the Control
              DStringFree(&targetUrl);
              DStringFree(&escapeUrl);
                                                                                                                                                                                                      CORN CANOTAL BLACK OF STORY
              return TCL_RETURN;
                                                                                                                                            The second section of the section of th
               }
                                                                                                                                                  graduated the Ogdie Collection
                                                                                     inner in goding"
                                                                                                                                                                                                        Commention and A District
              * Get(Ascii)Domain --
              * These routine performs an ascil to binary domain name lookup,
              * indexed by 'key') from the server's domain name catalog. Name/number
             * pair's are loaded into the catalog at configuration time with the
       * with the "Domain" configuration command. The Ascii version returns
             * a pointer to a character string that represents the domain number.
* The non Ascii version returns an integer representing the domain number.
                                                                                                                                                                                                  TO A BOAR IN SESSION TO THE
             * Results:
            * Integer value of domain. If no domain is available, returns deflt.
         ni<mark>t</mark>e og gravitation og skiller i kalander og skiller og skiller og skiller i kalander og skiller i kalander og
             * Side effects: (The terminal options is a team of the contract of
             * None, Fig. 3 of the little Sections of the Adenie days to accept the out
                                                                                                The Control of the Add Supplied to the Control of the Add Supplied to the Control of the Add Supplied to the Control of the Co
                                                                                                                                                                                                                                                                                        -:.
            static int GetDomain (char *domname, int deflt)
                                                                                                                                                                                                                                                redouble in the
                      HashEntry *entryPtr;
                                                                                                                                                 ्राटा, अप अन्य का ६० अनुसन्दर्भ महा अने पूछा । उसे ह
                      DString DomName;
                  _DStringInit(&DomName);
                      DStringAppend(&DomName, domname, -1);
                      strtolower (DStringValue (&DomName)); " ** ** And And The Section of the Section 
                     entryPtr = FindHashEntry(&TicketServerData.Domains,
                                                                                                                                                                                                                        <u>្នាស់ស្ពេចខាង ខេត្តក្រុង ៥០.២</u>
           DStringValue(&DomName));
                                                                                                                                                                                                                                                  adisigni afi
                     DStringFree(&DomName);
                                                                                                                                                                                                                             . ಕ್ರಾಮ ಕ್ಷಮಕ್ಕೆ ಕ್ಷಮ್ 1970
                      if (entryPtr == NULL) return deflt;
```

```
return (int) GetHashValue(entryPtr); Again en a ware a chosed
                                                                      albano ira ira galaje ir ermen nemodati ir etilikultulli ili ergi alijiki. Alji ir Al
                                 static char * GetAsciiDomain(char *domname, char *deflt)
                                                                                                                                                                                                          in the desired in the second of the control of the 
                                                                                                                                                                                                                                                                                           unitary court in the fact of
                                            HashEntry *entryPtr;
                                            static char buffer[64];
                                                                                                                                                                                                                                               THE SECRET SET BUILDING A SECTION OF S
                                            DString DomName:
                                                                                                                                                                                                                                                                               Lateral Lateral Control of the Contr
                                                                                                                                                                                                                                                                                    TO THE LEWIS OF THE MEN PRICES
                                           DStringInit (&DomName);
                                                                                                                                                                                                                                                                                                   ja kasumi kaluun maada d
                                            DStringAppend(DomName, domname, -1);
                                            strtolower(DStringValue(&DomName));
                                            entryPtr = FindHashEntry(&TicketServerData.Domains,
                              DStringValue(&DomName));
                                           DStringFree (&DomName);
                                                                                                                                                                                                                                                                                          olean gi≱ ole 2,5 to to the detection
                                            sprintf(buffer, "%d", (int) GetHashValue(entryPtr));
                                          return buffer;

If normy was introductions on the translation of the control of t
                               Note that the property of the second of the configuration of the configu
                                    or em como la composição de la composição
                                      TICKET_InsertLocalSid --
                                                                                                                                                                                                                                                                                                                                                             人名英格兰人
                                                                                                                       The marks of the death and the
                                                                                                                                                                                                                                                                             3/1/14
                              * Given a URL, inspect it to see if it refers to the local server/port
                              * if it does, and it does not already contain a SID, insert one if
                              * the current request included one. Note, for port 80 access we look
                              * for a match with and without the port specifier.
                              * Results:
                                                                                                                                                        relies a peer generation of the large office of the second contract
                              * None.
                              * Side effects:
                                                                                                                                                                                                                                                                                       ्रात्रा स्पार्वे विकास स्वाप्ता स्वाप्ता हो।
                                          A SID may be inserted into the URL.
                                                                                                                                                                                                                                                                                         ್ಯ ಸ್ಥಾನಕ್ಕೆ ಕಾಲ್ಕೆ ಸ್ವಾಪನದಲ್ಲಿ
                              */
                                                                                                                                                                                                grade growing to the control being with a fill
                             void TICKET_InsertLocalSid(HTTP_Request *reqPtr; DString *result)
                                         TICKET_Request *ticketPtr;
                                          char tmp[32];
                                                                                                                                                                                                                                                                                      ing the table of the department
                                         DString pattern1;
                                                                                                                                                                                            ್ಲಿ ಭಾರತಿಕರು ಚಿತ್ರಕ್ಕು ಮೊದಲ್ಲಿ ಅವರ ಚಾತ್ರಗಳು ಅಂತಿಗೆ
```

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```

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DString pattern2;
           DString tmp_url;
           DString *hitPattern * NULL;
           ticketPtr = (TICKET_Request *) HT_GetReqExtData(reqPtr,
  TicketServerData.tic
           if (ticketPtr == NULL) return;
           serverPtr = reqPtr->serverPtr;
          DStringInit(&pattern1);
          DStringInit(&pattern2);
          DStringInit(&tmp_url);
         DStringAppend(&pattern1, DStringValue(&serverPtr->serverName), -1);
         DStringAppend(&pattern2, DStringValue (&pattern1), -1);
         sprintf(tmp, ":%d", serverPtr->server_port);
         DStringAppend(&pattern1, tmp, -1);
                                                                                                                                                  The second of th
                                                                                                                                                                                    Palares of as 1984.
         if ((DStringLength(result) >= DStringLength(&pattern1)) &&
              (strncasecmp(DStringValue(&pattern1), DStringValue(result),
DStringLengt hitPattern = &pattern1;
                                                                                                                                        artist elegic del l'ampit a
else
                                                                                                                                                                                     प्राथमा क्षेत्र के राज्य र
if ((serverPTR-->server_port == 80) &&
         (DStringLength(result) >= DStringLength(&pattern2)) &&
          (strncasecmp(DStringValue(&pattern2), DStringValue(result);
DStringLength hitPattern + &pattern2;
                                                                                                                                                                            ടെ എം വരുമാന് കുടിച്ചു അതി
                                                                                                                                                                                gradition at
        if (hitPattern ! = NULL)
                                                                                                                                                                  erbal Bullergara. I
       DStringAppend(&tmp_url, DStringValue(hitPattern), -1;
       DStringAppend(tmp_url, DStringValue(&ticketPtr->sid), -1);
       DStringAppend(&tmp_url, &DStringValue(result)
                                                                                                                                                                          1. The second of the second of
[DStringLength (hitPattern)], 120 (200 til
                                                                                                                                                                             CALL FAIR BING THE
       DStringFree(result);
                                                                                                                                                                             ្រុងស្ត្រី ដែលជា
                                                                                                                                                                               (\mathbf{s}_{\mathbf{s}}, t_{1}, \mathbf{r}_{\mathbf{s}}, \mathbf{s}_{\mathbf{s}}) (5) (8) _{\mathbf{s}} (5) _{\mathbf{s}}
                                                                                                                              8 CT 11 EU
                                                                                                     . . . . .
       DStringAppend(result, DStringValue(&tmp_url)), -1): 131 - 37 - 37 - 39 -
       DStringFree(&tmp_url); we recommend
                                                                                                                                                                        ್.≉್ಟ ಪ್ರಚಿತ್ರಿಸಲ
                                                                                                                            nong patraci
                                                                                                                           10 . 75 1
                           e od i jedajška i stata, kid
     DStringFree (&pattern1);
                                                                                                                                               ing shake di namara di bili terapasa
     DStringFree (&pattern2);
                                                                                                                                             A DOMEST AND ASSESSED OF A REAL PROPERTY.
     DStringFree(&tmp_url);
                                                                                                                ្ត ព្រះ ព្រះ ព្រះស្នា (ពីការជន) ពេលបញ្ជា សូមជាល់ជីវិ
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स्थासम्बद्धाः स्थापन
                                                                                          e distribution of the second
 * CreateSid --
     This routine takes the passed arguments and creates a sid
                                                                        Company (1970) we become a company
* Results:
 * A sid.
                                                                        となるほど 越 かいそうかぎ
* Side effects:
                                                                                     o pasero ejobro o relator
char * CreateSid(HTTP_Request *reqPtr, int dom, int wid, int kid, int exp,
int uctx)
                                The second section is the second second second second
                  ുന്നു. പുറുത്തു വരുത്തുവും വാലം ഒന്നുമാന് നാന് വിത്രത്ത്രത്തിൽ മാന്ത്രം ആവാന് വ
    int bsid[3] = {0,0,0} $ 1900 | 7 900 | 7 900 | 1900 | 1800 | 1800 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900
                                                              ್ಯ (೨೯೦೮ ೯ ೯೦೦ ಮಾತ್ರತ ವ್ಯಕ್ತಿ ಕಿನಕ್ಕುಪ್ರವಿಕ್ಷದೇ ೧೮೮೮
    char temp_str[512];
    DString hash;
    static char; sid [64]; HTT | TO BETO BOOK LEED TO WEEK CONTROL
    char *secret;
                                                          12 × √38 × 3 × 3 × 25 × 4 × 1
    char *hashP:
    unsigned char tecpy ಕ್ರಾಂಕ್ರಿಗಳು, ೧೯೯೩ (೧೩ ಅದರ ಇವಿ) ಎಂದು ಪ್ರದರ್ಶಿಸುವ ಸಾಮಾರ್ಣ ನಿರ್ಣ
                                                             unsigned int eda;
    int endian = 1;
                                                                                    Cutto Anna Calebra Control (1997)
   DStringInit(&hash);
    Triancing sulsy con the later of the
   put_sid(dom_lw,
                                           uid_mask, fuid);
   put_sid(uid lw,
                                            uid_pos,
                                                                kid_mask, kid);
   put_sid(kid_lw,
                                             kid_pos,
   put_sid(exp lw,
                                             esp pos,
                                                                     exp_mask,
ing a little of the light with
                                                                    uctx_mask, uctx); **** http://www.nask.
   put_sid(uctx lw,
                                           uctx_pos,
   put_sid(rev lw,
                                          rev_pos; rev_mask, sid_rev_zero);
   secret = GetSecret(kid);
                                                                                       Control to the State of Control of the E
   ASSERT (secret ! = NULL);
                                                                                        in the salahasi beragai kecasa
   DStringAppend(&hash, secret, -1);
                                                                                            Charles of the Country Care to
```

```
DStringAppend(&hash, DStringValue(&reqPtr->remoteAddr), -1;
         sprintf(temp_str, "%08x%08x", bsid[2],bsid[1]);
         DStringAppend(&hash, temp_str, -1);
         secret, ip_addr, bsid[2[,bsid[1
                                                                                                      hashP = DStringValue (&hash);
                                                                                                                       Link dhi bedit t
         act_hash = compute_ihash(hashP);
                                                                                                     while (*hashP ! = 0) *hashP++ = 0;
         DStringFree (&hash);
   /* fix_endian(&act_hash, ecp, eda); *// Eng and Ebay as topics
                                                                                                                 , Elm laget / L
           .put_sid(sig_lw, sig_pos, sig_mask, act_hash)
   /* fix_endian(&bsid[0], ecp, eda); */
                                                                                                                                  4.9* 4.15
            fix_endian(&bsid[1], ecp, eda);
            fix_endian*&bsid[2], ecp, eda);
                                                                                                                               Eller Augentier - March
   #if (1 == 0
                                                                                                                                   DumpSid();
   #endif
            cp = radix64encode_noslash((char *) bsid, 12);
            strcpy(sid, SID prefix);
            strcat(sid, cp);
                                                                                                                             14 23 8 FAT 15
            free (cp);
THE REPORT OF FURNISHED AND A
                                                                                                                                             1992 100 44
                 compute_hash --
                                                                                                                                   a simble Edition and Edition
              Compute the MD5 hash for the specified string, returning the hash as
                 a 32 b xor of the 4 hash longwords.
                                                                                     (specification of the property of the property
              Results:
       hash int.
                                                                                                                                       GO STANDER OF BRATTERS
           Side effects:
                                                                                                          e is all more made to let our be be suit.
```

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```
*/ The Company of the Section of the Company of the
                      static int compute_ihash(char *str)
                                                                                                                                                                                   ್ನ 1- ಆರಣ್ಣ ಕರ್ನಿಗಳಿಗೆ ನಿರ್ವಹಿಸಲಾಗಿದ
                                        unsigned char hash[16];
                                                                                                                                                                                                                          Carry of the Some of the Contraction of
                                                                                                                                                                                                                 of the two sections are the con-
                                        unsigned int *pl;
                                                                                                                                                                                              Control of the site of the control o
                                        unsigned int hashi = 0;
                                                                                                                                                                                                 District Additional Control of Chief
                                                                                                                                                                                                                                                                               or your earners through
                                 MDInit (&md5);
                                MDUpdate(&md5, (unsigned char *) str, strlen(str));
                                MDFinal(hash, &md5);
                                pl = (unsigned int *) hash; (436)
                                                                                                                                                                                    gar in set and open and the contract of the contract of
                                hashi = *pl++; ·
                                                                                                                                                                                             (ens igns of Disco planting)
                                hashi ^= *pl++;
                                                                                                                                                                                                      المعاري المحافظة فالعالم فأرار والوالوا المسافي
                                hashi ^= *pl++;
                                hashi ^= *pl++;
                                                                                                                                                                                                                                                                                                              in the second second
                                return hashi;
                                                                                                                                                                                                                                                                                                                               - (15:00/mag)
                                                                                                                                                                                                                                                                                                                                                  1 6 8 5 5 5 72 2 3 3 5 7 12 4 2 1
                                                                                                                                                                                                                                                                                      computeHash --
                                                                                                                                                                                                                                                                                                                            Compute the MD5 hash for the specified string, returning the hash as
                                    a 32-character hex string.
                                 Results:
                        Pointer to static hash string.
                         * Side Effects:
                         * None.
್ಷಾಗ್ರಾಜ್ ಕ್ರೈನ್ ಪ್ರಾಕ್ಷನ್ ನಗಳ ಸಂಗರ್ಭದ ಕರ್ಷಕ್ಕೆ ಕಾರಿಕೆ ಕಾರಿಕೆ ಕಾರಿಗೆ ಬರುವುದು ಬರುವು
                                                                                                                                                                         Salation of the Control
                   static char *computeHash(char *str)
                                                                                                                                                                                                                                                                                                                                   ... Threat
                                                                                                                                                                                                                                                                                                                                           2.16.2 (1.15.5)
                               int i;
                              MD5 CTX md5;
                              unsigned char hash[16];
                                                                                                                                                                                                                                                                                                    Property A. A. P. Child
                                static char hashstr[33];
                                char *q;
```

```
grants of MD5Init (&md5) property as an extreme what of the extreme and the contract of the contract of
               MD5Update(&md5, (unsigned char*) str, strlen(str));
                MD5Final(hash, &md5);
                g = hashstr;
                for(i=0; i<16; i++ {
                   sprintf(q, "%02x", hash[i]);
                   q += 2;
                *q = ' \setminus 0';
               return hashstr;
         }
                                                                                                                  * TICKET_ParseTicket --
            * Called by dorequest, before any region commands or mount handlers
                  have run. We parse and handle incomeing sid's and tickets.
                                                                                        ంగుల్లోని అండికికేందు. అనిక్షామం చేస్తేని తీవిన ఈ కేరం
            * Results:
                                                                                                                                         287 miles 18 1 1 1 1
                  None.
                                                                                                                                                    47 2.10 236
                                                                                                                                             40 = 40,743
             * Side effects:
                                                                                                                                     */
        int TICKET_ParseTicket (HTTP_Request *reqPtr)
                                  int status = HT_OK;
                                                                                                               TO SELECT THE CONTRACTOR OF CASE OF CASE OF CASE OF CONTRACTOR
               IncTicketCounter(CountTotalUrl);
               if (TicketGlobalData(EnableTicket) & (status == HT OK)) status =
        ParseTicke return status;
                                                                                                            Orlanda se entra de la contrata de marco. C
                                                                                                                       edn kobamarkamet skalijouse sist
                                                                                                           i ski sku i tubita i is na o
                                                                                                         Selection to a new and the selection of the same and the selection of the 
                                                                                                                                                  ふんじゅう みたい しゃつまい
                                                                                                                                             Carrier to Library 1981 1984
            ParseSid --
                                                                                                                     grading the medital particles and the second
```

```
Called by TICKET_ParseTicket, before any region commands, or mount handle
   have run. We parse and handle incomeing sid's.
                                            ともなりある しょとしがく かん 思りばい
 * Results:
                                                     ruudad: - p
   None.
                                              CHAPT LESS & FULL THE CO.
                                    of I made the or marketices
  Side effects:
                                                  TOTAL CONTRACT
int ParseSid(HTTP_Request *reqPtr)
 · {
   TICKEKT_Request *ticketPtr;
   HTTP_Server *serverPtr;
   DString hash;
   Int i;
                                          🔗 - demoifement (Mid Torr
   char *cp., *cpl; sbussance margen (ac 4. 100) (assuperst ud collin
   int *bsid=NULL act hash a moont sunse and server and server and server
  unsigned int cur_tim, tdif, exp_tim;
   char *secret;
                                                        Buddeae. 3
  char temp_str[512];
  char *hashP;
  int sid_ok = 0;
                                                   ామా అహెక్టు ఉంది. ా
  unsigned char *ecp;
  unsigned int eda;
int endian = 1;
  int ip1, ip2, ip3, ip4;
/* fetch the server private ticket extension data */
/* note that this sets up a default ticket block for both SID's and Ticket a
serverPtr = reqPtr->serverPtr;
ticketPtr = (TICKET_Request *) Malloc(sizeof(TICKET_Request));
HT_AddRegExtData(reqPtr, TicketServerData.ticketExtensionId, ticketPtr, free
DStringInit(&ticketPtr->rawUrl);
                                        ್ ಕೃತ್ಯಗಳಿಗೆ ಇತ್ಯುಕ್ತ ಗರ್ಚನೆಗಳುಕೊಳ್ಳುಕೆ
DStringInit(&ticketPtr->sid);
DStringInit(&ticketPtr->fields);
DStringInit(&TicketPtr->signature);
DStringInit(&TicketPtr->ticketIP);
ticketPtr->valid
ticketPtr->sidDom
ticketPtr->ticketDom = -1;
ticketPtr->ticketExp = -1;
ticketPtr->uid
```

```
TicketPtr->uctx
                                                                                                                                                                                    sscanf (DStringValue (&reqPtr->remoteAddr), "%d.%d.%d.%d", &ip1, &ip2, &ip3, &
                    ticketPtr->uid =, (((ipl+ip2)<<24) | ((ip3+ip4)<<16) | (rand() & OxFFFF));
                     /* we are done if sids are not enabled, or this url does not have a sid */
                     if (!(TicketGlobalData(EnableSid))) return HT OK;
                     if (strstr(cp1, SID prefix) ! = cp1) | weights also all the drive
                            return HT_OK;
                    if (strlen(cp1) == sidLength) \ ...md work and a side of the color flat of the color
                                                                                                                                                                                    great agreement the fallowing specificable
                           DStringAppend(&reqPtr->url, "/", -1);
                           DStringAppend(&reqPtr->path, "/"; -1); Established the second of the sec
                           Large Control State Control
                                                                                                                                                                            Electric de la martin de de la compartation à
cp = strchr(cpl+sizeof(SID_prefix); //);
                   if ((cp - cp1) != sidLength)
                           return HT_OK;
                                                                                                                                                                                                             CHRESCOPY TEST C. 1.2. A. 12. G.
                                                                                                                                                                                     ្រុក សា ទោះ សំអេលីវ គ្រប់បញ្ចូលជា ១ សំណាស់ ប្រ.
                   IncTicketCounter(CountSidUrl);
                                                                                                                                                                                          ា្រ មកស្តីសន្តិតនៅក្នុង សុខ ការ ក្នុងមិនជាពេក នៅក្នុងស
                                                                                                                                                                                              The common facility as the majority
              DStringInit(&hash);
                                                   క్రామ్ని కామాన్లుకున్నారు. అంది కృష్ణులు ఉంది. ప్రేమ్యక్షుల్ కామేక్స్ కామార్ ఉన్నాయి. మాట్లులో
                   /* if sid eater is enabled, rewrite the url without the sid, and reprocess t
                   ್ರಾಮ್ನ ಕೃಷ್ಣ ಸ್ವಾರೀಕಿಕ್ಕಾಗಿ ಕೃತೀಗಾರ ಸೃತಿಪಾರ ≃ಾಟ್ಲಿಯೇ ಸರಾವಾಸಿಕುಂತ್ರ
                          DStringAppend(&hash, DStringValue(&reqPtr->url), -1);
                          DStringFree(reqPtr->url);
                         DStringAppend(&reqPtr->url, DStringValue(&hash) &hash) +sidLength, -1);
                         DStringTrunc(&hash, 0); ...t rate & factoring the 2. at 2.
                         DStringAppend(&hash, DStringValue(&reqPtr-.path), -1);
                                                                                                                                                                      างสำนักของแก่ ก็และผู้เกาะก็ใช้
                         DStringFree(&reqPtr->path);
                         DStringAppend(&reqPtr->path, DStringValue(&hash)+sidLength, -1);
                         DStringFree (&hash);
                         IncTicketCounter(CountDiscardedSidUrl); And the first of the country of the count
                                                                                                                                                                                                                                                                 Commission of the
                         return HT OK;
                DStringAppend(&ticketPtr->sid, ...DStringValue(&reqPtr->url), si
                                                                                                                                                                                                                                     Guille Balane Communication
                /* first convert the SID back to binary*/
                i = DStringLength(&ticketPtr->sid)-3;
               bsid = (int *) radix64decode_noslash(DStringValue(&ticketPtr->sid)+3, i, &i)
                iif ((bsid == NULL) || (i !+12)) goto rtn_exit;
                fix_endian(&bsid[1], ecp, eda);

    18 18 August 19 State (State of State of Sta
               fix_endian(&bsid[2], ecp, eda);
```

```
/* check the SID version field */
         if (get_sid(rev_lw,rev_pos,rev_mask) ! = sid_rev_zero) goto sid bad;
    if (get_sid(rsrvl_lw,rsrvl_pos,rsrvl_mask) ! = 0)) goto sid bad;
        if (get_sid(rsrv2_lw,rsrv2_pos,rsrv2_mask) !+ 0) goto sid bad;
                                            Total Combination of the Property of the State of the Sta
         /* Get a pointer to the secret */ - 1/6.29 - - 8 - / 1 4 1992 - 1 19 3
         secret = GetSecret(get_sid(kid_lw,kid_pos,kid_mask));
         if (secret == NULL) goto sid_bad; agg = 1 c. q 1...
         /* hash the sid and check the signature*/
         DStringAppend(&hash, secret, -1);
                                                                                                                        Agricultural of the strategies of the street of the file
        DStringAppend(&hash, DStringValue(&reqPtr->remoteAddr); -1)
         sprintf(temp_str, "%08x%08x", bsid[2],bsid[1]); 21 2013/9/ 1074 4
         dstringAppend(&hash, temp_str, -1);
         /* format of the hash string is %s%s%08x*, secret, ip_addr, bsid[2], bsid[1
                                                                                                                                                                  ing was yet in the court of the
                                                                                                                                                                                                          200 Mr. 1 12 30 6
        hashP = DStringValue(&hash);
                                                                                                                                                     , fighthrough terminally and have
         act_hash = compute_ihash(hashP);
        while (*hashP != 0) *hashP== 0;
         fix_endian(&act_hash, ecp, eda);
                                                                                                                                                                                            Tigalal turb ( Tig
         if (act_hash != get_sid(sig_lw,sig_pos,sig_mask)) goto sid_bad;
* is is ok, may be expired, but good enough to id: useria.*/
         ticketPtr->uiid = get_sid(uid_llw,uid_pos,uid_mask);
         tdif = (exp_tim - cur_tim) & Oxffff;
         if (tdif > 0X7fff)
                                                                                                                                                                                          ्या हा रहते। अवस्ति हा द्वारिक
                IncTicketCounter(countExpSid); Truble and the second of the second and the second
               goto sid exp;
                                                                                                                                                                                                           13-1 Talk 12 11 12 12 12 13
         ticketPtr->sidDom = get_sid(dom_lw,dom_pos,dom_mask);
         ticketPtr->valid = 1;
                                                                                                                      ** ****
                                                                                                                                                                   sid_ok = 1;
                                                                                                                               11 - 25
         IncTicketCounter (CountValidSid) in EG) data to the second of the second second
                                                                                                                                                                                      ... ಇಲ್ಲಿ ಚಿತ್ರ ಒತ್ತು ...
         sid bad:
              if (!(sid_ok)) IncTicketCounter(CountInvalidSid);
         sid_exp:
                DStringAppend(&ticketPtr->rawUrl, DStringValue(&reqPtr->path), -1);
```

```
DStringTrunc(&reqPtr->path, 0);
   DStringAppend(&reqPtr->path, DStringValue(&ticketPtr->rawUrl)+sidLength, -1)
 DStringTrunc(&ticketPtr->rawUrl, 0);
DStringAppend(&ticketPtr->rawUrl, DStringValue(&reqPtr->url), -1);
DStringTrunc(&reqPtr->url, 0);
DStringAppend(&reqPtr->url, DStringValue(&ticketPtr->rawUrl)+sidLength, -1);
rtn exit:
  DStringFree (&hash);
  if (bsid != NULL) free(bsid);
  return HT_OK;
                                      The content of the content of the content
 * freeTicketRegData
               . Entrader Bull Collector & onertail (Bellevich tail) inwite
    This routine frees the storage used by ticket specific request
 * data.
 * Results:
 * Side effects:
  Memory freed.
;tatic void freeTicketReqData(void *dataPtr)
  TICKET_Request *ticketPtr = dataPtr;
  DStringFree(&ticketPtr->rawUrl);
  DStringFree(&ticketPtr->sid);
 DStringFree(&ticketPtr->fields);
  DStringFree(&ticketPtr->signature);
  DStringFree(&ticketPtr->ticketIP);
  free(ticketPtr);
                                                     je kao matana ny mandri dia
                             ্থাতি । সুৰু ধৰ্ণতে ইন্তৰ্তি হৈ হৈছিল ইনিকাৰী নামান ইনিক্সিকাৰ সাল
                                        ್ಯಾಪ್ ಅವರ ಪ್ರತಿಕರ್ಮ ಕರ್ನಿಗಳಿಗಳು
  GetSecret --
                                   THE BUNDANCE WAR SHARE TO THE CONTROL
   Given a binary keyID, returns an ascii secret from the
```

. 2. 5 =

```
secrets store.
                                                                                                                                                                                                                                                                                                                                              And the second of the second o
                                            for untranslatable names, return NULL: The state of the s
                      * Results:
                                                                                                                                                                                                                                                                                                                   Company of the second of the country of the
                                            Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Commit
                   * Side effects:
                                                                                                                                    es:
Supersonation is the control of the Common of the Control of the Control of the Control of the Control of the Co
                                                                                                                                                                                                                                                                                                                                                                     State State
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THE STATE OF THE S
      char *GetSecret(int kid)
                        HashEntry "entryPtr;
                       entryPtr + FindHashEntry(&TicketServerData.SecretsKid, (void *) kid);
                        if(entryPtr == NULL) return NULL;
                      return DStringValue(((DString *)GetHashValue(entryPtr));
                                              ന് ക്രൂട്ടു സംവിധയായിൽ അത്രോട്ടുന്നുള്ള സ്വര്ഷ്ട്രത്ത് വരുന്നു വരുന്നു. വരുന്നു വരുന്നു വരുന്നു വരുന്നു വരുന്ന
                             GetKidByKeyID --
                                  Given an ascii KeyID return the binary Key ID.
                                    for untranslatable names, return -1.
                  Results:
                                    "I've got a secret, now you do too" The in the secret here there
                   Side effects:
                                                                                                                                                                                                                                                                                                         A TOUR TABLE OF THE RESERVE AND CHARD IN
                                                                                                                                                                                                                                                                                                                                                                     THE REPORT OF THE PARTY OF THE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                  graphs, and the compact of the
                                                                                                                                                                                                                                                                                     ್ಯಾವಾರ್ಡ್ ಎಬ್ಎ ೧೯೮೮ ಎಂಬು 4
                                                                                                                                                                                                                                                                                                                   in question of the Melandra Q
int GetKidByKeyID(char *keyID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HashEntry *entryPtr;
  entryPtr = FindHashEntry(*&TicketServerData.KeyID< (void *) keyID);</pre>
                if(entryPtr == NULL) return -1;
                return (int) GetHashValue(entryPtr);
                                                                                                                                                                                                  property of the second of the second of the second
```

```
* fieldParse --
         * Given a string, a separator character, extracts a field up to the
        * separator into the result string.
        * Does substitution on '%XX' sequences, and returns the pointer to the
        * character beyond last character in '*endptr'.
                                                                                                                                                                                                                                                                                                                       TO THE STATE OF STREET
                                                                                                                                                                                                                                                              Community of a section of a section of the section 
       * Results:
        * Returns a malloc'ed string (caller must free), or NULL if an
        * error occurred during processing (such as an invalid '%' sequence).
       * Side effects:
       * None.
*/
#define SIZE INC 200
statiic char *fieldParse(char *str, char sep, char **endptr)
                char buf [3];
                                                                                                                                                                                                                                                                                                                                                        a Broad wills af thus
                char c;
                char *end, *data, *p;
                int maxlen, len; - - the representable to the contradiction of the contr
                                                           or and one of more and to ampressed the path of set of common streets of the
               \mathbf{len} = \mathbf{0}_{\mathbb{Z}(\mathbb{R}^{n}) \times \mathbb{R}^{n}} \times \mathbb{R}^{n} 
              p = data = malloc(maxlen) printar at de la transfer as de la vyrage de la company
                                                                                                                                                                                                                                                                                          January Branch Company Const.
      * Loop through string, until end of string or sep character.
     while(*str && *str != sep) {
                                                                                                                                                                                                                                                                                                                                                                    Side addocts -
               if(*str == '%') { ; %%; } , a solution with Hope of the life with
          if(!isxdigit(str([1]) | | !isxdigit(str[2])) {
                                                      free (data):
                                     Theturn NULL; It is structed braditional translation where the largest
                                                                                                                                                         me in his day appear and
                      buf[0] = str [1];
                                                                                                                                                                                                                                                                                                                                                                                            14 / 54 / 24
                     buf[1] = str [2];
                                                                                                                                                                                                                                                                                                                                   LESE RETURNS CONTRACTOR
               buf [2] = ' \setminus 0';
                                                                                                                                                                                                                                                                                                                                                                     Committee of the second
                      c = strtol(buf, &end, 16);
                                                                                                                                                                                                                                                                                                                                                                 activities for the const
                      str += 3;
```

BNSDOCID: <WO___9642041A2_I_>

```
} else if(*str == '+') {
                                                                                                                                                                           str++;
               } else
              · c = *str++;
                      The control of the co
                                                                                                                                                                                  Contract, the second of the other trees of
              len++;
               maxlen += SIZE INC;
                   data = realloc(data, maxlen);
                   Barrier and the second of the 
                                                                                                                                                                                                                                                                                                                                          6 W 1 - 1
                    *p++ = ' \0';
                    *endptr = str;
                                                                                                                                                                                                                                                                              ೯೯೯೨ ರಿಚ್ಚುರರಾಗಿ ಅನುನೇಷ-
                                                                Drumble to the control with the sum of the s
                                                                                                                                                                                                                                                                                                                        Edit to thata
                                                                                                                                                                                                                                                                                                                                        1.5 1.54
                   DomainNameCmd --
                                                                                                                                                                                                                                                                                                       to the last of the state
                 A call to this routine, builds the ascii domain name...
                  to binary domain name maping structure for a numeric domain.
                  Syntax is Domain number name1 name2 name3 name...name_last: *
                  At least one name is required. The number is decimal and a makes
                  can be any value except -1. -1 is reserved as a marker
                  for untranslatable names.
                                                                      on a company of the modern document of the contract of the contract of
             Results:
                  None.
            Side effects:
                  Commands are validate, and entries added to the map
    */
static int DomainNameCmd(ClientData clientData, Tcl_Interp *interp,
                                                                                                                                                int argc, char **argv)
               int new, i;
              HashEntry *entryPtr;
               int DomNumber:
              DString DomName:
```

```
155. -42-
```

```
if (argc <3)
                                                     Tcl_AppendResult(interp, argv[0], " directive: wrong number of "
                                                                                                                                 "arguments, should be \"3\"", let read the beautiful to
                                                                                  (char *) NULL);
                                                     return TCL_ERROR;
                                                                                                                                                                                                   ing New York (1997) and Arabita Carlot (1997) and the control of the Arabita
                                    DStringInit (&DomName);
                                                                                                                                                                                                                         ್ರಾಚಚಿತ್ರಗಳ ಕಾರ್ನ್ಸಿಕ್ಕಾಡಿಗೆ ಮಾಡಿದ್ದಾರೆ ನಿಂದಿ
                                    if (((sscanf(argv[1], "%d", &DomNumber) ! = 1 || (DomNumber == -1)))
                                                                                                                                           ,这一个人的变形,我们就被自己的人,这一个人的人就是一个人的,不是这样的人。
                                                    Tcl_AppendResult(interp, argv[0], " directive: ",
                                                                                                              "Domain number must be an integer, and not equal to -1",
                                                                                                              ", value found was ",argv[1],
                                                                                                               (char *) NULL);
                                                                                                                                                                                                                                                                                                                                                           1 - 1 - 1
                                                   return to TCL ERROR;
                                                    In any appropriate the property of the control of the property of the property of the control of
                                  THIS IN THESE
                                                  DStringFree (&DomName);
                                                                                                                                                                                                                                                                                                                                           ्रक्षम्बर्ग्यस्थान्यः ।
                                                   DStringAppend(&DomName, argv[i], -1);
                                                   strtolower(DString Value(&DomName));
                                                   entryPtr = CreateHashEntry(&TicketServerData.Domains, DStringValue
                                                              (&DomNam
                                                   if (new == 0)
                                                                                                                                                                                                                                              ್ನು (ಭ್ರ) ಗಣ್ಣಪ್ರವಾಗಿ ಸಹ್ಮ ಸ್ವಾಗಿ ಪ್ರಭಾಗ್ರಕ್ಕಾಗಿ ಕಾರ್ಯಕ್ಷ್ಮ ಕೈತಿಗೆಗ
                                                                                                                                                                                  the springs and down allowed a structure with the
                                                Tcl_AppendResult(interp, argv[0]), #gdirective: true to be about the
                                                                                                                                                                                                                                                                                                                            (char *) NULL);
                                               return TCL ERROR;
          TO DESCRIPTION OF STREET AND STRE
                                                  SetHashValue(entryPtr, DomNumber);
                                                                                                                                                                                                                                                                                                                                    of Charge Land Control of the
Continues de la marca de la companya del companya de la companya de la companya del companya de la companya de la companya de la companya de la companya del companya del companya del companya de la companya de la companya de la companya del comp
                                 DStringFree (&DomName); the result of the strip stable of the stri
                                 return TCL OK;
                                                                                                                                                                                                                                                  , 10) vigit ( ), must ( ), huma which is published
                                                                                              ಕರ್ನಡ್ಡಾಗ್ನ ಎಂದು ಸ್ಥಾಪಕ್ಷ ಕರ್ನಾಣಕ್ಕೆ ಅಡುವಾಗಿದ್ದರು. ಅತ್ಯಕ್ಷಾಪ್ತ ಅ
                                              SecretsCmd --
                                                     A call to this routine, builds kid to secrets table
                                                                                                                                                                                in the said Research that is the first season of a court
                                                                                                                                                                                                                                                                                                                 British Control of the Control of the Control
                                               Results:
```

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```
* None.
  * Side effects: 1 1971 - File to all the mention of the self-organism
  * Secrets are stored. (49) - d & Lucco attractions
static int SecretsCmd(ClientData clientDate, Tcl_Interp *interp,
                                                                                                        ្រាក្រាស់ ស្រីវ៉ាប់ ប្រាំខ
                                   int argc, char **argv)
                                                                          CHI DHOLE GOLDHAN COLONY OF THE MICH.
      int newKid, newKeyID;
      HashEntry *entryPtrKid = NULL, *entryPtrKeyID = NULL;
      int Kid;
                             1977 1. Att.
                                                                          ារូវ សាក្រស់ ជាស្រាស់ ដែលបានគឺ។ មន្តស៊ីប្រ
     DString tasptrKid; as a separation of the material and the
                                                              Strangers, Total Control of the Con-
     if (argc ! = 4)
                                                                                                    Tcl_AppendResult(interp, argv[0], " directive: wrong number of "
                  (char *) NULL);
    return TCL_ERROR;
                                                                                               A tempirology servanturi
    }
                                                                       the although a strikings consignations of
                                                                       CARROR HAT A STORY OF THE STATE OF THE STATE
    if (sscanf (argw[2], cradu, takid) ale 1) and the forder of the first terms
    Tcl_AppendResult(interp, argv[0],
                 " directive: KeyID must be an integer",
                 ", value found was ராந்ருardy [2] ) அன்ற , ர வக்கை பிறுக்கை நிறி
              (char *) NULL);
    return TCL_ERROR pare to a september 2, the above as each of a september 2, a fine a
                                                                                                                A TOTAL OF LAND
                                                                                                               1 1984 14 14 15 6
   entryPtrKid = CreateHashEntry(&TicketServerData.SecretsKid, (void *) Kid, &n
   if (strlen(argv[1]))
                                                                       ing the artists of the contraction of the second the second the second terms of the se
      entryPtrKeyID = CreateHashEntry(&TicketServerData.KeyID, (void *) argv[1],
   if ((newKid == 0 || ((newKeyID == 0) && strlen(argv[1])))
   Tcl_AppendResult(interp, argv[0],
                 " directive: Duplicate Secret specified for KeyID '",
                 argv[1].
   (char *) NULL);
   return TCL_ERROR;
                                                                                                                         5.50 A 5.55 E 4
   if (strlen(argv[1]))
                                   Blown branch, or hit unlike the times with
   dsptrKid = (DString *) malloc(sizeof(DString));
   DStringInit(dsptrKid);
```

```
Alle 10 mg s results of the 1
             SetHashValue(entryPtrKid; dsptrKid); SetHashValue(entryPtrKid; dsptrKid);
                                                                                                                                                                    化氯化物 医克尔特姆氏管 化邻苯基苯
              SetHashValue(entryPtrKeyID, Kid); Stall and Stall a leaf of the control of the co
                                                                                                                                               (newastice or construction) of an object
              return TCL_OK;
                                                                                                                                  ា ស្វានមួយដីធ្លាស់ ស្រាស់ស្រាស់ ស្រាស់ ស
                                                                                                                              The first of the first of the second of the second
                                                                                                                                            Cause Presenting Street all the City
                                                                                                                                      FIRST COLD TO SEE TO SEE STATE OF THE SEE STATE OF THE SEE STATE OF THE SECOND SEE STATE OF THE SECOND SECO
                                                                                                                                           * alipamento (galencia) de de los el percipa e alla component
                                                                                                                                        ್ಯಾಕಿದ್ದರೆ ಬರುವುಗಳ ಪ್ರಕ್ರೀ ಪ್ರತಿಸಿಕೊಂಡಿಗಳು ಪ್ರಶ್ನತಾರ್ ಪ್ರವರ್ಥ
             TICKET: Initialize --
                                                                                                                         , arm - currence - farital tip.
                                                                                                                                                                                       medicing concentration of
                Calls all the necessary routines to initialize the ticket subsystem.
               Resultignic records to resultablishing to a full the following of the results and the results of the results of
                                   None, of TW (), to the the visited of design of the line
              "cijOriacejummenājimhemp = "72 ikontari ationastitles". Omikraing - 63 tu
                Side effects TT . (relfor stop discharge and all all follows to a saturate the con-
                        as Commands added to the region interpreter.
               SID "/@@": url catcher declared."
                                                                                                                               The Carl Stock of Congress of Spacesters, who seems from
                                           .avistric 5.0)
                                                  e ignor jakina mir kokolin kiliku eshkoda kilikadi nejilitok
                                              BESSVENDING OF TERRESPONDED AT THE TRANSPORTER
int TICKET_Initialize(HTTP_Server &serverPtr, Tcl Interp *interp)
{
    TicketServerData.ticketExtensionId = HT_RegisterExtension(serverPtr,
    "ticket
                                                                                                   Teldana adelland adelland adestalla establica
         InitHashTable(&TicketServerData.SecretsKid, TCL_ONE_WORD_KEYS);
         InitHashTable(&TicketServerdata.KeyID, TCL_STRING KEYS);
         InitHashTable(&TicketServerData.Domains, TCL_STRING_KEYS);
         /* initialize Server ticket data */
        DStringInit(&TicketGlobalData(AuthServer));
        DStringInit(&TicketGlobalData(TicketExpHandler));
        DStringInit(&TicketGlobalData(TicketAdrHandler));
         TicketGlobalData(FreeArea)
         TicketGlobalData(EnableLocalAuth)
                                                                                                                                                                            = 0;
                                                                                                                                                                                                                                   TicketGlobalData(CurrentSecret)
                                                                                                                                                                            = 0;
         TicketGlobalData(EnableSid)
         TicketGlobalData(EnableTicket)
        TicketGlobalData(EnableSidEater)
                                                                                                                                                                        \cdot = 0;
        TicketGlobalData(LocalAuthExp)
                                                                                                                                                                           = 60*30;
         /* ticket event counters */
```

```
TicketGlobalData(CountTotalUrl)
                                                                   、(a) yanua Oyu - Habi u tenga ya at
     TicketGlobalData(CountSidUrl)
                                                                                 = 0;
     TicketGlobalData(CountExpSid)
     TicketGlobalData(CountInvalidSid)
     TicketGlobalData(CountCrossDomain)
     TicketGlobalData(CountLocalredirects)
     TicketGlobalData(CountRemoteRedirects)
    TicketGlobalData(CountNoRedirects)
    TicketGlobalData(CountDiscardedSidUrl)
    /* Ticket related Config commands */
    Tcl_CreateCommand(interp, "Domain",
                                                                                        .....DomainNameCmd.
                       (ClientData) serverPtr, NULL);
    Tcl_CreateCommand(interp, "Secrets", Secrets@md;
(ClientData) serverPtr, NULL);
    Tcl_CreateCommand(interp, "AuthenticationServer", CmdStringValue,
                (ClientData) & TicketGlobalData(AuthServer), NULL); attovi
    Tcl_CreateCommand(interp, "TicketExpirationHandler", CmdStringValue,
      (ClientData) &TicketGlobalData(TicketExpHandler), NULL) pality wall to
   Tcl_CreateCommand(interp, "TicketAddressHandler" en CmdStringValue,
      (ClientData) &TicketGlobalData(TicketAdrHandler), NULL); 100 100
    Tcl_CreateCommand(interp, "FreeDomain",
                                                                                           CmdIntValue,
      (ClientData) &TicketGlobalData(FreeArea), NULL);
    Tcl_CreateCommand(interp, "EnableSidEater",
                                                                                           CmdIntValue,
      (ClientData) &TicketGlobalData(EnableSidEater), NULL);
    Tcl_CreateCommand(interp, "EnableSid",
                                                                             CmdIntValue,
      (ClientData) &TicketGlobalData(EnableSid), NULL)
   Tcl_CreateCommand(interp, "EnableTicket",
                                                                                         CmdIntValue,
      (ClientData) & TicketGlobalData(EnableTicket), NULL);
   Tcl_CreateCommand(interp, "EnableLocalAuth", CmdIntValue
      (ClientData) & TicketGlobalData (EnableLocalAuth), NULL);
   Tcl_CreateCommand(interp, "CurrentSecret", CmdIntValue,
      (ClientData) & TicketGlobalData (CurrentSecret), NULL);
   Tcl_CreateCommand(interp, "LocalAuthExp", .... CmdIntValue, .....
      (ClientData) &TicketGlobalData(LocalAuthExp), NULL);
                                                    នៅញើស្តីខ្លួននេះ វិកាស ស៊ីនេក ដើម្បីបទ បាន និង
   HT_AddMounthandler(serverPt
                                                                ientData) NULL, TICKET DebugHooks
      "/omiserver", NULL);
                                                                                gard agod, aud millionsbill
                                                                      til Island Island was fire in likeby in
   return HT OK:
                                                                          ver a large of the large large with
                                                                                in the state of th
                                                                                          . g proli bil<del>ga</del>roll
                                                                                         Comment of the first of the state of
```

. 5

```
TICKET_Shutdown --
                 Calls all the necessary routines to shutdown the ticket subsystem.
                  None.
 , * maSide: effécts: (1905) has to make a settle habitation and consideration of the constant of the constan
       * Memory freed
                    The state of the control of the substitution of the control of the state of the sta
                                            THE CONTRACT OF THE CONTRACT CONTRACT
                                                                                              with the Hegger of dailing 200
  void TICKET_Shutdown (HTTP_Server *serverPtr)
            HashEntry *entryPtr;
            HashSearch search;
            DString *dstring;
                                                                                                                                                                                                   - gafdskusVIGOrsk_com I
            DStringFree (&TicketGlobalData(AuthServer));
            DStringFree (&TicketGlobalData(TicketExpHandler));
            DStringFree (&TicketGlobalData (TicketAdrHandler));
            entryPtr = FirstHashEntry(&TicketServerData.SecretsKid, &search);
            while (entryPtr ! = NULL)
                 dstring = GetHashValue(entryPtr);
DStringFree(dstring);
                 free (dstring);
                 entryPtr = NextHashEntry&search);
           DeleteHashTable (&TicketServerData.SecretsKid);
           DeleteHashtable(&TicketServerData.KeyID);
           DeleteHashTable(&TicketServerData.Domains);
                                                                                                                                                                                               and common expensional encoapility
                  postedu la labilita com se le colonia de la colonia de
     * TICKET AddRegion Commands --
                                                                                                                                                                                                                      ara ittätetitio
                                               Add TICKET region commands for authentication/authorization
decisions.
      * Results:
                                               None.
```

```
Lock to 12 (170 CO)
          * Side effects:
                                                Commands added to the region interpreter.
    void TICKET_AddRegion Commands (HTTP_Request *reqPtr, Tcl_Interp *interp)
                                                                                                                                                                                                                             Tcl_CreateCommand(interp, "RequireSID", TICKET_RequireSidCmd,
                                                                                                          (ClientData) reqPtr, NULL);
                             Tcl_CreateCommand(interp, "RequireTicket", TICKET_RequireTicketCmd,
                                                                                                         (ClientData) reqPtr, NULL);
                             .}
                                                                                                               te transpart of magazine and the gravitable of w
                                                                                                                                                                                                       ्राज्या च्याला राज्यार विकास
                                                                                                                                                                                                               ್ಯವೆರಗುಕ್ಕಾರಿ ಚಲಸ್ವಗತ್ತಿಗೆಗರಿಕ
                                                                                                                                                      TICKET_GetCGIVariables -- property against saturation of library 2004 beautyrup to the control of the control o
                                                                                                                                      Strand (Arienation of Translation of the
                            Add TICKET CGI variables to the CGI variable table, sortion water
                   ್ ಚಿನ್ <mark>ಗೌರ್ಗಳಿ</mark> ಸತ್ಯ ಕಾರ್ಯಾತ್ರಿಕರು ಸಂಕರ್ಣಕ್ಕೆ ಸಂಕರ್ಗಳಲ್ಲಿ ಅಂತ ಸರಕ್ಷಗಳ ಅವರ ಸಂಕರ್ಣಗಳು
               Results:
                                                                                                                                                                                           ryn - syfwr oliff
          * Side effects:
                                                                                                                                                    CALIND THE PROPERTY OF THE PROPERTY OF
                                                Extends the CGI variable hash table.
                                                                                                                                                                                                                              li (gati or∺a i orași
                                                                                                                                                  void TICKET GetCGIVariables (HTTP_Request *req)

(CT(@H.A.) = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.00 = 0.0
                             TICKET_Request *ticketPtr = (TICKET_Request *)
    HT_GetReqExtData(req.TicketS
          * If there's no extension data, then we're not doing a ticket. Just
return
                                                                                                                                                                    gradian i desembla de la Marija de Alf
                              if (ticketPtr == NULL)
            and the Teturn) Virginia and the state share and make a first transfer
```

```
if (DStringLength(&ticketPtr->rawUrl) ! = 0)
                                                                       HT_AddCGIParameter(req, "TICKET_URL", DStringValue(&ticketPtr-
                >rawUrl), FA
                                                if (DStringLength (&ticketPtr->sid) != 0)
                                                                        HT_AddCGIParameter(req, "TICKET_SID", DStringValue(&ticketPtr-
                >sid), FALSE the total the country tagget and the factor
                                              if (DStringLength(&ticketPtr->fields) != 0)
                                                HT_AddCGIParameter(req, "TICKET_FIELDS", DStringValue(&ticketPtr-
                >fields).
                                              if (DStringLength(&ticketPtr->signature) [= 0] 1 . CO _______ bar
                                              HT-AddCGIParameter(reg, "TICKET_SIGNATURE". DStringValue(&ticketPtr-
               >signa
                                              }/*
                    *TICKET_GetUrl
                                                                               The second of the second second in the second secon
                                                                     Return the original url (with sid)
                                                                                                                                      www. J. J. Budal, Broth Bast Schoffdele 75 of Go
                                                                The URL.
                                                                                                                                                    ានភូមិ (make me that e last a last a transition of a box
                                                                                                                                                                                                           Comment of the state of the
                  * Side effects:
                                                                  None.
                                                                      The second of the second second of the secon
                 */
            char * TICKET_GetUrl(HTTP_Request *reqPtr)
And the first the second of th
                                          TICKET_Request *ticketPtr;
                                           ticketPtr = (TICKET_Request *)
                              HT_GetReqExtData(reqPtr, TicketServerData.ticketExtensionId):
                                           if ((ticketPtr != NULL) &&
                                                                             (DStringLength(&ticketPtr->rawUrl) != 0))
                                                                    return DStringValue(&ticketPtr->rawUrl);
                                          else
                                    return DStringValue(&reqPtr->url)
                                                                                                   and property of the substitute of the state of the second section of the
                                               grave grave results to the first the state of the presentation
                * TICKET_ConfigCheck
                                                                   Perform late configuration checks
```

```
district of fighters of designations and the statement of the
                                   * Results: A sale of the specific agent to a sale of the A section of the 
                                                                                                                                                                      ್ರಾರ್ಥಿ ಅಂದರ್ಭವರ್ಷದ ಬೆಂದು ಪ್ರಾಥಕ್ಕೆ ಅತ್ಯಂತಿ ಕ್ರಾರ್ಥಿಕ
                                   * Side effects: (1995) which weaker use notice to get
                                                                   Possible message loged/printed, and program exit d.
                                                                                                                                    All the later of the control of the second of the later
void TICKET_ConfigCheck()
     er de religio ( ) de presentación especial presentación de la media de la media publica de la compania del compania de la compania de la compania del compania de la compania del la compania del la compania de la compania del la
                                                         HashEntry *entryPtr;
                                                         int kid:
                                                        if ((TicketGlobalData(EnableSid) & -Oxl) != 0)
                                                                                                                                                                                                                                                                                                                     DEDICAL COMPONIE
                                                                                LogMessage(LOG_ERR, "EnableSid must be 0 or 1");
                                                                                 exit (0); [ball talks of the column of the name of
                                                        if (!(TicketGlobalData(EnableSid))) return;
                                                       kid = TicketGlobalData(CurrentSecret);
                                                        if (kid && kid_mask) != kid)
                                                                                                                                                                                                                                                                                                              Company ARE NOTE OF A
                                                                                {
                                                                               LogMessage(LOG-ERR; "CurrentSecret %d is invalid", kid);
                                                                                                                                                                                  to to entropication of the state of the stat
                                                      entryPtr = FindHashEntry(&TicketServerData.SecretsKid, (void *) kid);
                                                                                                                                                                                                                               German Emmis Europed_ #EUTS
                                                      if(entryPtr == NULL)
                                                                                                                                                                                                      The pastock to the Little and the sub-
                         LogMessage (LOG_ERR), "No secret defined for CurrentSecret %d", kid;
                                                                                                                                                                                                                     Tage of Miles Harling South Con-
                                                                                                                                                    ាស្ត្រាស់ ខេត្ត សាស្ត្រាការ ខេត្ត សេស្ត្រា 🕟 🚓
                                                      if ((TicketGlobalData(FreeArea) & ~0x255) != 0) .....
                                                                             LogMessage(LOG_ERR, "FreeArea, must be between 0 and 255");
                                                                              exit(0);
                                                                              }
                                                     if ((TicketGlobalData(EnableSidTicket) & -0x1) != 0)
                                                                            LogMessage(LOG_ERR, "EnableSidTicket must be 0 or 1");
                                                                            exit (0);
                                                                                                                                                                                                                                                                                       4.5430 ST R DOMEST
```

```
if ((TicketGlobalData(EnableTicket) & -0x1) !- 0);
                                                                                                                        LogMessage(LOG_ERR, "EnableTicket must be 0 or 1");
                                                                                                                         exit(0);
                                                                                                                         }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if ((TicketGlobalData(EnableLocalAuth) & -0x1) = 0)
                                                                                                                       LogMessage(LOG_ERR, "EnablLocalAuth must be 0 or 1");
                                                                                                                                                                                                                                                  THE STATE OF THE SECURITY OF T
                                                                                                                                                                                                                                           CALBORA ACCAS DE ADER DO ACADA DE ABORDO ENTRE
                                                                                  }
                                                                                                                                                                                                                                                                                                     /*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 garden in the state
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . . . C. . 1 1
                                                         TICKET DebugHooks
                                                                                  Check for debug hooks and execute if found ? The Enter the second of the control 
                                                                                                                                     ್ಷ ಆರಾಣ - ಇದ್ದಾರ್ಯಗಳು ಸಂಪರ್ಧಿಸಿದ ಕ್ಷಾಣಕ್ಕೆ ಕ್ಷಾಣಕ್ಕೆ ಕಾರ್ಟ್ಗಳ ಮಾಡಿಕೆ ಮತ್ತು ಕೆಲ್ಲೇ
                                                                                                                                                                                                                                                                                                                                                                                        t trainsmirth sell of more
                                                     Results:
                                                                                  None. Particles in a serious and control of the results are increasing the property of the
                                                                                                than a feather with a common to be decided after
                                            * Side Effects:
                                                       None. The same of 
                                                                                                                                              */
                                                                                                                                                                                                                                                                                                                                               A COMPANIE LATER CONTRACTOR OF A
tatic void_TICKET_DebugHooks(ClientData clientData; char *suffix.
                                                                                                                                                                                                                                                                       HTTP_Request "FeqPtr") * This The True
                                                                                 om graf light 25%
                                                                                  explored by the first commercial control of the con
                                                                                                                                                                                                                                                                                                                                                    Cold a company of the line (ED)
                                                                                            DumpStatus(reqPtr);
                                                                               HT_FinishRequest (reqPtr); d of sile of sile
                                                                                                                                                                                                                                                                                                                                                 ್ ವಿಚ್. ಸ್ಥಾರ್ಡ್ ಚಿತ್ರಕ್ಕೆ ಕ್ರಮೀಕ್ ಕ್ರೌಡ್
                                                                                              return;
provides to pulpose with a minute of supplied to the best of the part of the man
                                                               HTTP_Error(reqPtr, NOT_FOUND, "access denied due to poorly formed url");
                                                     1.00.11
                                                                                                                                                                                                                                                                                                                                               in 1277 i ja i indepet, baka 1770 f
                                                   The second of th
                                                                                                                                                                                                                                                                                                                                                 in the company of the
                                                                              ាស្រ្តី ការប្រកាស តំបស់ ស្រាស់ ស្រាស់ សាងស្រាស់ សំពេញ និងសិក្សា
                                         * DumpStatus --
                                                                                Dump the server's ticket staffs the land of the Maria - the W
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- )c - - -51-
```

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The TWO A (bure Delignment radiation form for the lit
            Results:
                         None.
                                             granda na baratan na mandalawaan kaasagawa ngasan isa a
     * Side effects:
                        None.
                                                             # /
#define BUFSIZE 1024 Color Fire through the color of the colors
static void DumpStatus(HTTP_Request *reqPtr)
            HTTP_Server *serverPtr = reqPtr->serverPtr;
            char tmp[BUFSIZE], timeStr[BUFSIZE];
            struct utsname sysinfo; ......
            time_t uptime;
            int hours;
                                                                                                                                                                                                                   ಡಿಸ್ ಇದ್ದು ಕ್ಷಾಪ್ತ್ ಕ್ಷಾಪ್ತ ಕ್ಷಾಪ್ತ್ ಕ್ಷಾಪ್ರ ಕ್ಷಿಪ್ತ್ ಕ್ಷಾಪ್ತ್ ಕ್ಷಾಪ್ತ್ ಕ್ಷಾಪ್ತ್ ಕ್ಷಿಪ್ತ್ ಕ್ಷಾಪ್ತ್ ಕ್ಷಿಪ್ತ್ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ್ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ಟ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ತ ಕ್ಷಿಪ್ಟ್ ಕ್ಷಿಪ್
           HTTP_BeginHeader(reqPtr, 200 OK); and the second partition of the C
          HTTP_SendHeader(reqPtr, "Content-type: text/html", NULL);
           HTTP_EndHeader(reqPtr);
           HTTP_Send(reqPtr, "<title>WebServer Ticket Status</title>", Service Status | Status 
                                                                                                "<hl>WebServer Ticket Status</hl>:, NULL);
                                                                                                                                                                                                                                     radio 3.3 most c
          HTTP_Send(reqPtr, "<hr>>><hr>>><ht>>Ticket Log</h2>", "\n", NULL);
          sprintf(tmp, " <b>%s: </b> &d\n", "Number of access"
                                                                                                                                                                                                                                                                                 ", Ticket
          HTTP_Send(reqPtr, tmp, NULL);
          sprintf(tmp, " <b>%s: </b> %d\n", "Number of SID URL's ", Ticket
          HTTP_Send(reqPtr, tmp, NULL) pat pak ; ....
          sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Valid SID's
                                                                                                                                                                                                                                                                                     ", Ticket
          HTTP) Send (reqPtr, tmp, NULL) 4 ( Sepusation )
                                                                                                                                                                                     and the control of th
          sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Expired SID's
                                                                                                                                                                                                                                                                                    ", Ticket
         HTTP) Send(reqPtr, tmp, NULL);
                                                                                                                                                                                       IN TERMS IN INCIDENTAL
          sprintf (tmp, "
                                                                             <br/><b>%s: </b> %d\n:, "Number of Invalid-SID"s
         HTTP) Send(reqPtr, tmp, NULL);
         sprintf (tmp, " <b>%s: </b> %d\n:, "Number of XDomain accesses ", Ticket
        HTTP) Send (reqPtr, tmp, NULL); 133008 1 2007 1 2007
         sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Local Redirects ", Ticket
         HTTP) Send (reqPtr, tmp, NULL);
         sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Remote Redirects ", Ticket
         HTTP)Send(reqPtr, tmp, NULL);
         sprintf (tmp, " <b>%s: </b> %d\n:, "Number of No Auth servers ", Ticket
        HTTP_Send(reqPtr, tmp, "", NULL);
                                                                                                                                                                                                                                          6 10 20 52 C
      uptime = time (NULL) = serverPtr->started;
        uname (&sysinfo);
```

striftime(timeStr, BUFSIZE, "%A, %d-%b-%y %T",

```
localtime(serverPtr->started));
                                                                                                          springf(tmp, "Server runing on <d>%s</b> (%s %s) port %d, has been up \
                                                                       since %s.", sysinfo.nodename, sysinfo.sysname,"
                                                                             sysinfo.release, serverPtr->server_port, timeStr);
              HTTP_Send(reqPtr, tmp, NULL);
  သွင်လုန်းက ရ အလောင်း ကြန်းသည်။ အောင် မြောင်းမှာ ရာ ရာရှင် ကန်းသောကာရှာ ရှိတွာ ရာဝင်သော မြေ
              sprintf(tmp 4. % <b>Number of connections: 15 1/2 36\n".
   or grant and serverPtr->numConnects); mass is graitmas and
              <b>Number of HTTP requests: $d\n*,..
              sprintf(tmp, "
           HTTP_Send(reqPtr, tmp, "", NULL);
                                                                                                                           its (Freight and no worker
          chours = max(uptimes/3600;01); no sees seen gridned to
sprintf(tmp, "This server is averaging <b>%d</b>erequests per hour.","
                                                 serverPtr->numRequests/hours); (dt.// na/2);
              HTTP_Send(reqPtr, tmp. NULL);
              DumpRusage (regPtr) arang i misit oi bemisio as lodiam i
   /*
                       DumpConnections(reqPtr) */
                                                                                                                           a diam tradic un acrema
             DNS_DumpStats(reqPtr);
             HTTP_Send(reqPtr, "<hr><address>", DStringValue(&ht serverSoftware),
     pringram and "</address>\n", NULL); cashor and ofo no massign
                                                                                     the seconder of a partie to with the
              reqPtr->done = TRUE;
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go cara son o moral prisa o discussions an mendem community can be insulted What is claimed is: made to ascrete as the case of the control of the control of the case of the

1. A method of processing service requests from a client to a server system through, a network comprising:

forwarding a service request from the client to the server system; which the server system;

returning a session identifier from the server system to the client; and

appending the session identifier to the request

10 and subsequent service requests from the client to the server system within a session of requests.

- 2. A method as claimed in Claim 1 wherein the server system tracks an access history of sequences of service requests within the session of requests.
- 3. A method as claimed in Claim 2 wherein the server system tracks the access history to determine service requests leading to a purchase made within the session of requests.
- 4. A method as claimed in Claim 1 wherein the server

 20 system counts requests to particular services

 exclusive of repeated requests from a common client.
 - 5. A method as claimed in Claim 1 wherein the server system maintains a database relating customer information to access patterns, the information including customer demographics.

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- A method as claimed in Claim: 1 wherein the server system subjects the client to an authorization routine prior to issuing the session identifier and the session identifier is protected from forgery.
- 5 7. A method as claimed in Claim 6 wherein the server system comprises plural servers including an authentication server which provides session identifiers for service requests to multiple servers.

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8. A method as claimed in Claim 7 wherein:

a client directs a service request to a first server which is to provide the requested service;

the first server checks the service request for a session identifier and only services a service request having a valid session identifier, and where the service request has no valid identifier:

**Request from the client to the authorization server:

the authorization server subjects the client to the authorization routine and issues the session identifier to be appended to the service request to the first server;

the client forwards the service request appended with the session identifier to the first server; and

dentifier and services the service request to the client; and services the service request to the

subsequent service requests to the server system and is serviced without further authorization.

9. A method as claimed in Claims 1 or 7 wherein the session identifier includes a user identifier.

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- 10. A method (as claimed) in: Claims as or 75 wherein the session, identifiers includes: ans expiration time for the session, as assumed to assume an expiration time for the session.
- 11. A method as claimed in Claim 7 wherein the session identifier provides access to a protected domain to which the session has access authorization.
- 12. A method as claimed in Claim 11 Wherein the session identifier is modified for access to a different protected domain. A make the after a bedieve the session as a bedieve the session of the session
- 10 13. A method as claimed in Claim 7 wherein the session identifier provides a key identifier for key.

 management. a assistation for telliness files a pair of editors of the session and editors.
 - 14. A method as claimed in Claims 11 or 7 wherein the session server system records information from the server system.
 - 15. A method as claimed in Claims 1 or 7 wherein communications between the client and server system are according to hypertext transfer protocol and the session identifier is appended as part of a path name in a uniform resource locator.
 - 16. A method as claimed in Claim 15 wherein the client modifies, the path name of a current uniform resource locator using relative addressing and retains the session identifier portion of the path name unmodified for successive requests in the session.

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- 18. A method of processing service requests from a client to a server system through a network comprising:

 responding to a request for a document received from the client through the network;

 appending a session identifier, which includes a user identification, to the request; and
 - conceturning the requested document wherein the condocument is customized for a particular user based on the user identification of the session identifier.
 - 19. Admethod of processing service request for a document received from a client through network in which the document has been purchased by a user comprising:

 responding to a request for a document received

appending to a request for a document received from a client through the network in which the account has been purchased by the user;

appending an authorization identifier to the request; and a second purchase of the second purc

authorization identifier indicates that the user is authorized to access the document.

- 20. A method as claimed in Claim-19, wherein the authorization identifier is encoded within a session identifier which is appended to the request.
- 21. A method of processing service requests from a client to a server system through a network comprising:

 responding to a request for a document received

 from a client through the network;

 appending a user identifier to the request;

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and; charging the requested document to the client, and; charging the user identified in the identifier for access to the document.

22. A method as claimed in Claim 21, wherein a user identifier is encoded within a session identifier which is appended to the request.

restant is communicated in the store of

- 23. A method of processing service requests from a client to a server system through a network comprising:

 10 forwarding a service request from the client to the server system; and appending a session identifier to the request and subsequent service requests from the client to the server system within a session of requests.
- 15 24. An information system on a network comprising:

 ______means; for receiving service requests; from clients and for determining whether a service request includes a session identifier; asservice was entitien; in

 means for providing the session identifier in

 response to an initial service request in a session of

means for servicing service requests from a client which include the session identifier, the subsequent service request being processed in the session.

- 25. An information system as claimed in Claim 24 wherein the means for providing the session identifier is in a server system which services the requests.
- 26. An information system as claimed in Claim 23 further comprising an authorization routine for authorizing

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- the client prior to issuing the session identifier and means for protecting the session identifier from forgery.
- 27. An information system as claimed in Claim 24 further comprising a transaction log for recording information from the session identifier.

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- 28. An information system as claimed in Claim 24 further comprising means for tracking access history of sequences of service requests within the session.
- 10 29 a Anginformation system as claimed in Claim 24 further comprising means for counting requests to particular services exclusive of repeated requests from a common client to said as an above an angular as gainer with the said as an above an angular as gainer with against the said as a common client.
- 30. An information system as claimed in Claim 24 further comprising a database relating customer information to access patterns, the information including customer demographics.
- 31. An information system as claimed in Claim 25 wherein communications between the client and server system are according to hypertext transfer protocol and the session identifier is appended as part of a path name in a uniform resource locator.

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32. An information server on a network comprising:

means for responding to requests for hypertext
pages received from a client through the network by
returning the requested hypertext pages to the client;
means for responding to further requests derived
from links in the hypertext pages; and

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means for tracking the further requests derived from a particular hypertext pages and a multiple of the control of

- 33. An information server as claimed in Claim 32 wherein the requests include a common session identifier and ? the server tracks requests within a session of requests. 网络沙漠群岛 医骨上 经股份债 ·大水。至300日的
- An information server as claimed in Claim 32 further comprising a data base relating customer demographics to access patterns. The way extraors to
- 10 A method of providing access to information pages from a client to a server system through a network was Comprising: or . noth anasquer perset of the speakings and comes torator 👵 ito: providing a telephone number at the clientic

mapping the telephone number to a target page 15 identifier using a translation database; requesting information described by the page identifier from the server system; and displaying a page identified by the page mos identifier at the client.

20 36. A method of providing access to information pages from a client to a server system through a network comprising:

providing a descriptor at the client; mapping the descriptor to a target page

identifier using a translation database; requesting at the client information described by the page identifier from the server system without further user action; and displaying a page identified by the page identifier at the client.

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- 37. A method as claimed in Claims 35 or 36 wherein the translation database resides in the server system which returns a uniform resource loctor in a REDIRECT command to the client to cause the client to request the information using the uniform resource locator.
- 38. A method as claimed in Claim 36 wherein the descriptor comprises a telephone number.
- 39. A method as claimed in Claim 36 wherein the descriptor comprises a descriptive term.
- 10 40. A method as claimed in Claim 39 wherein the term includes a company name.
 - 41. A method as claimed in Claim 39 wherein the term includes a product name.
- 42. A method as claimed in Claim 39 wherein the term isidentified by phonetic mapping.
 - 43. A method as claimed in Claims-35 or 38 wherein the target page identifier describes a controlled page.
 - 44. A method as claimed in Claims 35 or 36 wherein the target page identifier is a uniform resource locator.



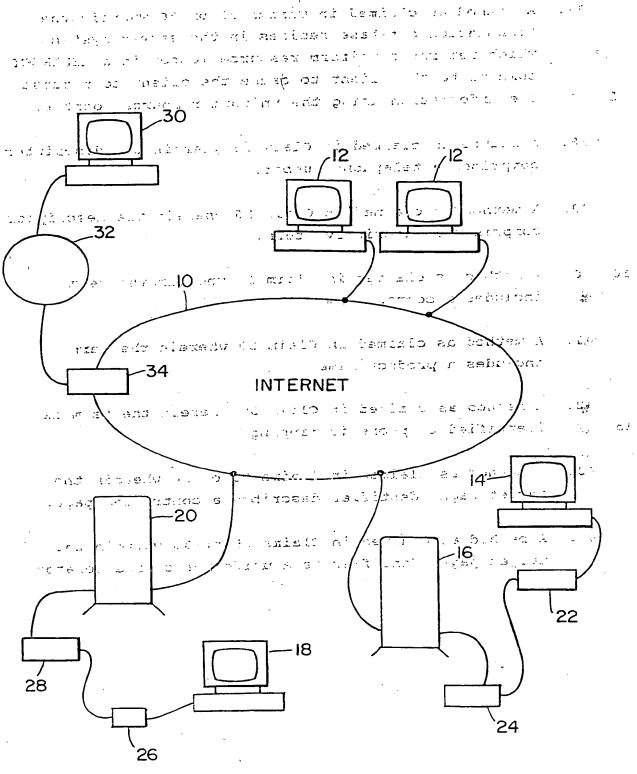
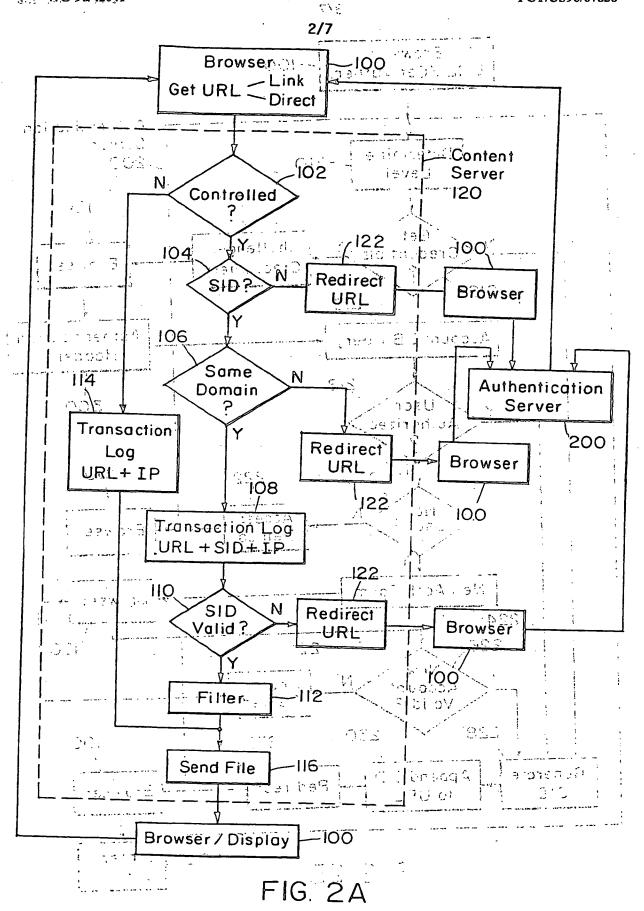
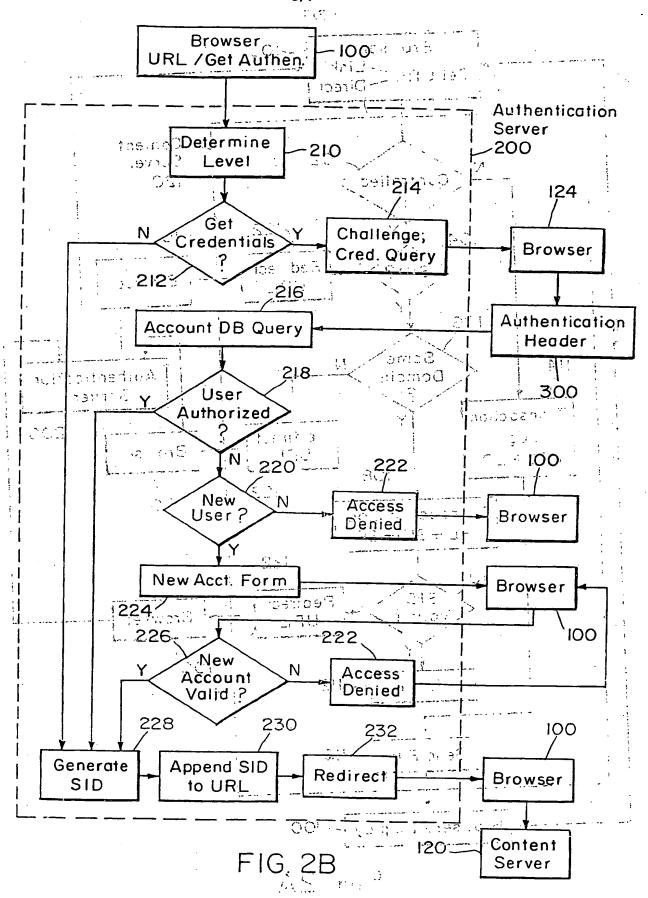
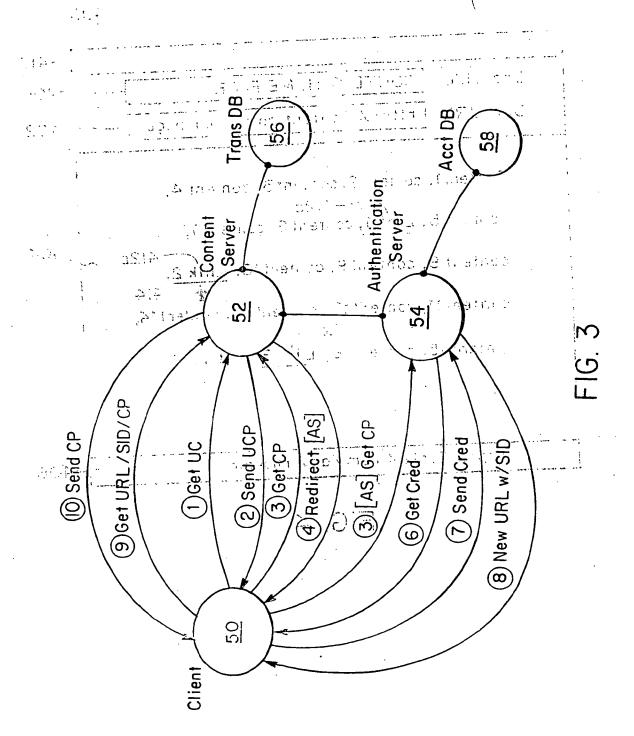
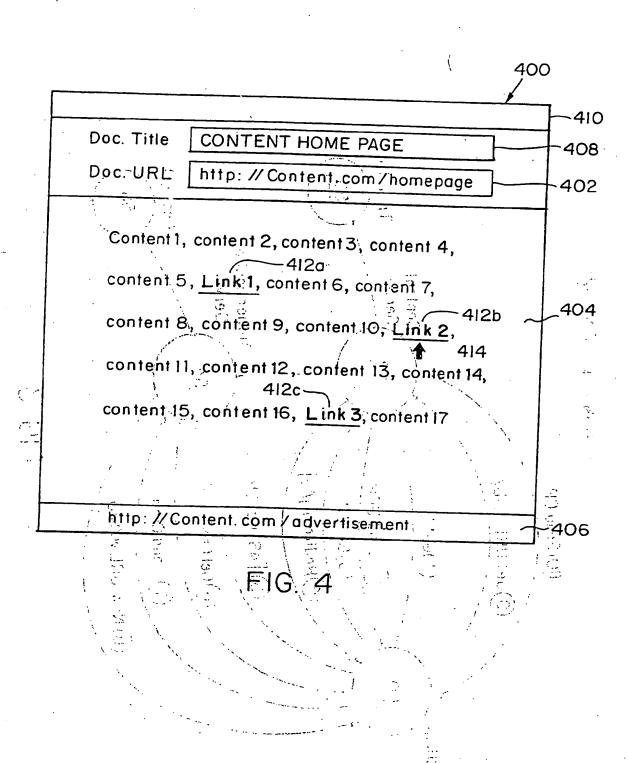


FIG. 1



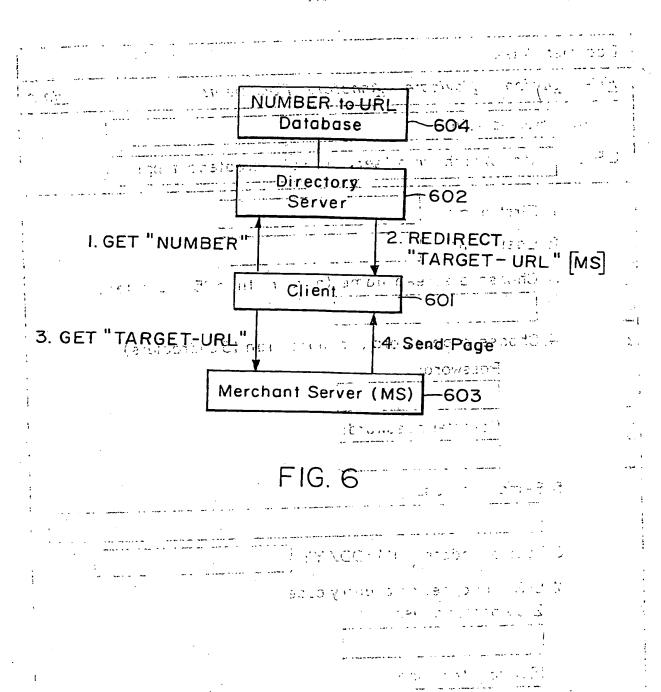






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FIG. 5



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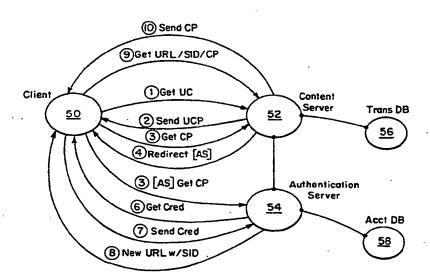
(71) Applicant: OPEN MARKET, INC. [US/US]; 215 First Street, Cambridge, MA 02142 (US).

(72) Inventors: LEVERGOOD, Thomas, Mark; 9 North Street, Hopkinton, MA 01748 (US). STEWART, Lawrence, C.: 1 Arborwood Drive, Burlington, MA 01803 (US). MORRIS, Stephen, Jeffrey; 3 Kings Pine Road, Westford, MA 01886 (US). PAYNE, Andrew, C.; 5 Lewis Street, Lincoln, MA 01773 (US). TREESE, George, Winfield; 81 Saco Street, Newton, MA 02164 (US). GIFFORD, David, K.; 26 Pigeon Hill Road, Weston, MA 02193 (US).

(74) Agents: SMITH, James, M. et al.; Hamilton, Brook, Smith & Reynolds, Two Militia Drive, Lexington, MA 02173 (US).

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(54) Title: INTERNET SERVER ACCESS CONTROL AND MONITORING SYSTEMS



(57) Abstract

This invention relates to methods for controlling and monitoring access to network servers. In particular, the process described in the invention includes client-server sessions over the Internet involving hypertext files. In the hypertext environment, a client views a document transmitted by a content server with a standard program known as the browser. Each hypertext document or page contains links to other hypertext pages which the user may select to traverse. When the user selects a link that is directed to an access-controlled file, the server subjects the request to a secondary server which determines whether the client has an authorization or valid account. Upon such verification, the user is provided with a session identification which allows the user to access to the requested file as well as any other files within the present protection domain.

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INTERNATIONAL SEARCH REPORT

mal Application No PCT/US 96/07838

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) HO4L IPC 6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

| ategory * | IENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| ſ | IEEE MULTIMEDIA, vol. 1, no. 1, 1994, COMPUTER SOCIETY US, pages 37-46, XP000440887 see page 43, left-hand column, line 12 - right-hand column, line 25 | 2,5 |
| Y | EP,A,O 645 688 (KPN NEDERLAND) 29 March | 6-8 |
| | see column 1, line 37 - column 4, line 20 see figure 150 see 10 20 20 20 20 20 20 20 20 20 20 20 20 20 | |
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| A | WO,A,94 03959 (INTERNATIONAL STANDARD ELECTRIC CORP.) 17 February 1994 see page 5, line 25 - page 9, line 12 | 1-44 |
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